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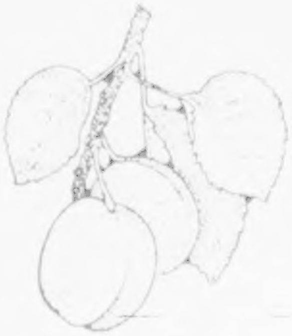
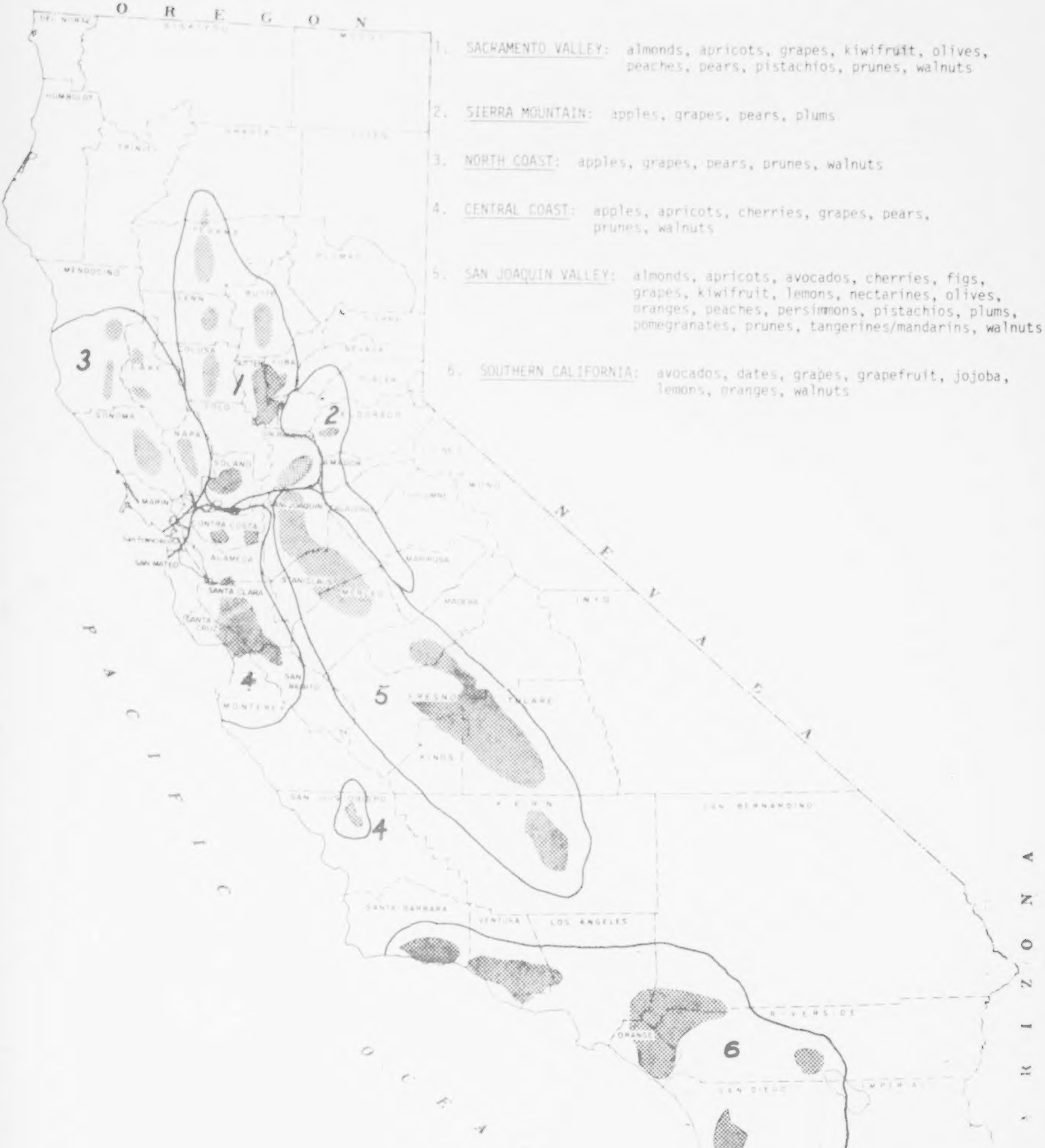
CALIFORNIA
FRUIT & NUT STATISTICS

1979-88



California Agricultural Statistics Service
P.O. Box 1258
Sacramento, California 95812

CALIFORNIA FRUIT AND NUT CROPS
Major Producing Districts


O R E G O N
DEL NORTE
SISKIYOU
MODOC
HUMBOLDT
SHASTA
LASSEN
TRINITY
TEHAMA
PLUMAS
MENDOCINO
GLENN
BUTTE
SIERRA
NEVADA
LAKE
COLUSA
SUTTER
YUBA
PLACER
SONOMA
YOLO
EL DORADO
NAPA
SOLANO
SACRAMENTO
AMADOR
MARIN
SAN JOAQUIN
CALAVERAS
TUOLUMNE
MONO
CONTRA COSTA
San Francisco
ALAMEDA
SAN MATEO
STANISLAUS
MARIPOSA
MERCED
SANTA CLARA
MADERA
INYO
SANTA CRUZ
SAN BENITO
FRESNO
TULARE
MONTEREY
KINGS
SAN LUIS OBISPO
KERN
SAN BERNARDINO
SANTA BARBARA
VENTURA
LOS ANGELES
RIVERSIDE
ORANGE
SAN DIEGO
IMPERIAL
1
2
3
4
4
5
6
N E V A D A
A R I Z O N A
P A C I F I C
O C E A N
M E X I C O

1. SACRAMENTO VALLEY: almonds, apricots, grapes, kiwifruit, olives, peaches, pears, pistachios, prunes, walnuts

2. SIERRA MOUNTAIN: apples, grapes, pears, plums

3. NORTH COAST: apples, grapes, pears, prunes, walnuts

4. CENTRAL COAST: apples, apricots, cherries, grapes, pears, prunes, walnuts

5. SAN JOAQUIN VALLEY: almonds, apricots, avocados, cherries, figs, grapes, kiwifruit, lemons, nectarines, olives, oranges, peaches, persimmons, pistachios, plums, pomegranates, prunes, tangerines/mandarins, walnuts

6. SOUTHERN CALIFORNIA: avocados, dates, grapes, grapefruit, jojoba, lemons, oranges, walnuts

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CALIFORNIA FRUIT AND NUT STATISTICS

This bulletin contains preliminary estimates for 1988 and final 1979-1987 California fruit and nut statistics. Final revisions have been made based on review of marketing order data, recorded truck and rail movement, quantities used by processors, and other available check data. Estimates of production and prices for 1988 are preliminary and subject to revision after final data are received.

Utilization and price data are shown in one table for ease of reading.

Explanatory "Notes for the Users" on page 1 provide general information regarding the data shown and covers special or unique factors pertaining to individual crop data.

Data presented in this publication are made possible by the voluntary cooperation of growers, fresh shippers, processors, and other representatives of the California fruit and nut industry. Their cooperation is greatly appreciated.

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State of California
Department of Food and Agriculture
Agricultural Statistics Branch

April 1989

NOTES FOR USERS

1. PRODUCTION

Total production is the quantity actually harvested plus quantities which would have been acceptable for fresh market or processing but were not harvested. It also includes fruit that was harvested but not sold due to marketing conditions.

Utilized production is the amount sold, plus the quantities used at home or held in storage.

Yield is based on fresh weight total production.

2. UTILIZATION

Utilization refers to first, but not necessarily final, utilization. For example, frozen fruit used for preserves is included as frozen.

Canned: Includes all canned products -- jam, jelly, baby food, nectar, juice, puree, and all fruit packs combined.

Dried: Tonnage published is the equivalent fresh tonnage weight for most fruits. Data acquired from dry yards and dehydrators provide the dried tonnage and the estimated drying ratio. The equivalent green tonnage used for drying is derived. The following table lists the tons of green fruit required to produce one dried ton.

Year	Apples	Apricots	Figs	Raisins	Freestone Peaches	Pears	Prunes
1979	8.90	7.30	3.00	4.55	9.20	6.20	3.14
1980	8.40	7.00	3.00	5.22	8.00	5.40	3.48
1981	10.00	6.90	3.00	4.00	8.50	5.00	3.15
1982	8.50	6.88	3.00	5.24	8.70	6.00	3.20
1983	8.50	6.88	3.00	4.48	9.00	6.00	3.20
1984	8.50	6.40	3.00	4.15	9.00	5.90	3.00
1985	8.50	6.50	3.00	4.50	8.00	6.50	3.05
1986	8.50	6.80	3.00	4.26	9.00	6.40	3.00
1987	8.30	7.92	3.00	4.02	9.00	7.10	3.00
1988	N/A	6.70	3.00	5.00	8.20	6.50	3.11

3. PRICE AND VALUE

a. Noncitrus Fruits and Nuts

Average grower return: The entire data series is based on the equivalent return at the first delivery point. The first delivery point price is defined as the price received by growers for fruit delivered at the local market, receiving house, receiving station, or any other first delivery point. Drying costs are excluded from grower return on all fruit crops except grapes.

Price and Value: The difference between first delivery point and PHD prices is transportation costs. Prices are season averages computed on the basis of all methods of sale. Returns at the processing plant door for "processing" utilization and returns at the packinghouse door for "fresh market" utilization are weighted together to obtain the season average. Value should not be confused with cash receipts from these crops for a single calendar year. The season average price is applied to utilized production to compute value of production.

b. Citrus Fruits

Price and value, published as "grower return per box", are based on equivalent packinghouse door returns for the entire data series.

4. CITRUS AND AVOCADO CROP YEAR

Production for the crop year is from the bloom of the first year shown. For example, 1987-88 would represent the 1988 production from the 1987 bloom.

5. MISCELLANEOUS NOTES

Strawberry, bushberry, and melon information is available in the Vegetable Crops Annual Bulletin.

1988: GRAPES CONTINUE TO BE LEADING CROP

The total value of California's 1988 fruit and nut crops is estimated to be $3.9 billion, 4.2 percent above 1987. Grapes continued to lead with 31 percent of the total.

Production for 1988 fruit and nut crops is estimated at 12.3 million tons, down only 0.6 percent from 1987. Total bearing acreage of 1,951,250 was off slightly from a year ago. Average value of production per acre of $1,983 was up $92 from a year ago.

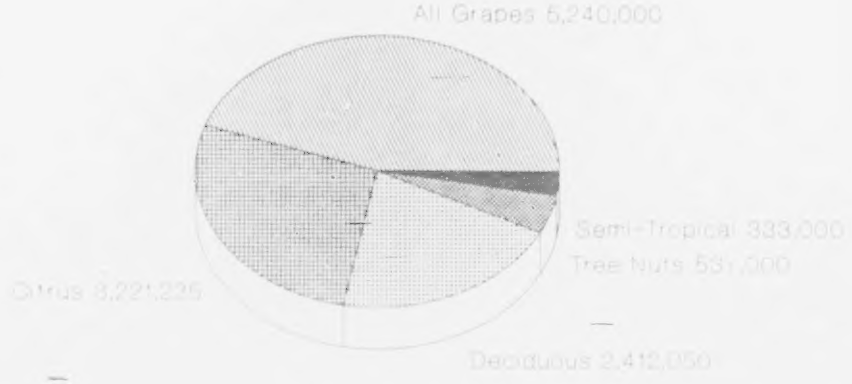
Cold, Arctic air ushered in the New Year. Preventative measures kept citrus and avocado damage to 10-15 percent in most areas. Damaged fruit was downgraded from fresh to processing uses. Near normal temperatures and generally scattered rains returned to dominate January's weather. Spring-like temperatures in February pushed the almonds and stone fruit orchards into an early, full bloom near month's end. Mild and generally dry weather continued into early March. The unusually warm, dry spring gave way to a frost by mid-month. Damage in the San Joaquin Valley was spotty. Above normal temperatures returned and continued through mid-April. Late in the month, localized hail and wind damaged some San Joaquin Valley almonds, apricots and peaches. May entered with cool temperatures, strong winds and rain causing damage mainly to the cherry crop. Normal to above normal temperatures moved in and continued through early June. Precipitation was scattered to light with seasonal totals falling 30 percent below average. Temperatures of up to 16 degrees below normal were felt for a few days in June. July was generally hot with above average temperatures and several record breaking highs. By contrast, August was cooler than normal. Good harvest conditions continued into September with generally dry, warm conditions. Only scattered rain fell in October while temperatures were mostly above average. November and December continued drier than normal but with average temperature ranges.

TABLE 1 --- ALL CALIFORNIA FRUITS AND NUTS: TOTAL ACREAGE, PRODUCTION, AND VALUE BY GROUPS, 1979-88

CROP	CROP YEAR	BEARING ACREAGE	PRODUCTION	AVERAGE VALUE PER ACRE a/	VALUE OF UTILIZED PRODUCTION
		--- Acres ---	-- Short Tons --	-- DOLLARS --	-- (000) Dollars --
DECIDUOUS TREE FRUITS b/	1979	276,700	2,271,300	2,035	563,183
	1980	276,900	2,355,500	2,155	596,664
	1981	268,300	2,190,150	2,055	551,293
	1982	272,000	1,900,800	1,841	500,634
	1983	270,500	1,685,000	1,777	480,664
	1984	271,400	2,075,700	2,027	550,202
	1985	273,900	2,048,400	2,218	607,527
	1986	273,700	1,793,200	2,278	623,355
	1987	279,200	2,698,420	2,477	691,525
	1988	278,800	2,412,050	2,579	718,953 h/
GRAPES c/	1979	593,800	4,558,000	1,808	1,073,647
	1980	597,900	5,124,000	2,061	1,232,511
	1981	593,500	3,993,000	2,034	1,207,145
	1982	617,500	6,076,000	2,019	1,246,827
	1983	643,900	4,919,000	1,472	947,894
	1984	667,800	4,670,000	1,321	882,117
	1985	682,500	5,207,000	1,285	877,048
	1986	670,900	4,770,000	1,580	1,060,244
	1987	661,400	4,660,000	1,824	1,206,660
	1988	653,700	5,240,000	1,863	1,217,740
TREE NUTS d/	1979	529,180	404,600	1,472	778,976
	1980	533,220	371,450	1,337	712,877
	1981	529,380	436,250	1,034	547,429
	1982	547,880	429,200	1,119	612,888
	1983	568,280	333,200	695	394,977
	1984	589,730	539,550	1,125	663,462
	1985	621,300	465,050	920	571,873
	1986	631,000	342,450	1,166	735,469
	1987	628,300	594,100	1,495	939,347
	1988	627,000	537,000	1,434	899,375 h/
SEMITROPICAL TREE FRUITS e/	1979	98,200	245,020	1,392	136,681
	1980	105,700	251,850	1,707	180,451
	1981	112,600	343,400	1,270	143,017
	1982	119,500	365,100	1,775	212,057
	1983	123,100	316,400	1,157	142,399
	1984	127,500	396,550	1,339	170,680
	1985	128,100	363,000	1,623	207,899
	1986	129,300	339,300	1,991	257,495
	1987	129,400	413,700	1,299	168,051
	1988	128,300	333,000	2,197	281,849 h/
CITRUS FRUITS f/	78-79	265,000	2,189,390	1,564	414,591
	79-80	264,600	3,206,925	1,521	402,371
	80-81	266,200	3,703,645	1,723	458,708
	81-82	264,900	2,540,050	1,838	486,869
	82-83	259,900	3,944,175	1,706	443,326
	83-84	259,600	2,781,155	2,113	548,559
	84-85	254,700	3,069,500	2,869	730,629
	85-86	252,900	2,928,500	2,438	616,598
	86-87	251,200	3,376,975	2,563	668,962
	87-88	249,700	3,221,225	2,874	717,583
TOTAL g/	1979	1,762,880	9,668,310	1,683	2,967,078
	1980	1,778,320	11,309,725	1,757	3,124,874
	1981	1,769,980	10,666,445	1,643	2,907,592
	1982	1,821,780	11,311,150	1,679	3,059,275
	1983	1,865,680	11,197,775	1,291	2,409,260
	1984	1,916,030	10,462,955	1,469	2,815,020
	1985	1,960,500	11,152,950	1,528	2,994,976
	1986	1,957,800	10,173,450	1,682	3,293,161
	1987	1,962,889	12,420,005	1,891	3,712,385
	1988	1,951,250	12,340,955	1,983	3,869,120

1988 FRUIT AND NUT PRODUCTION

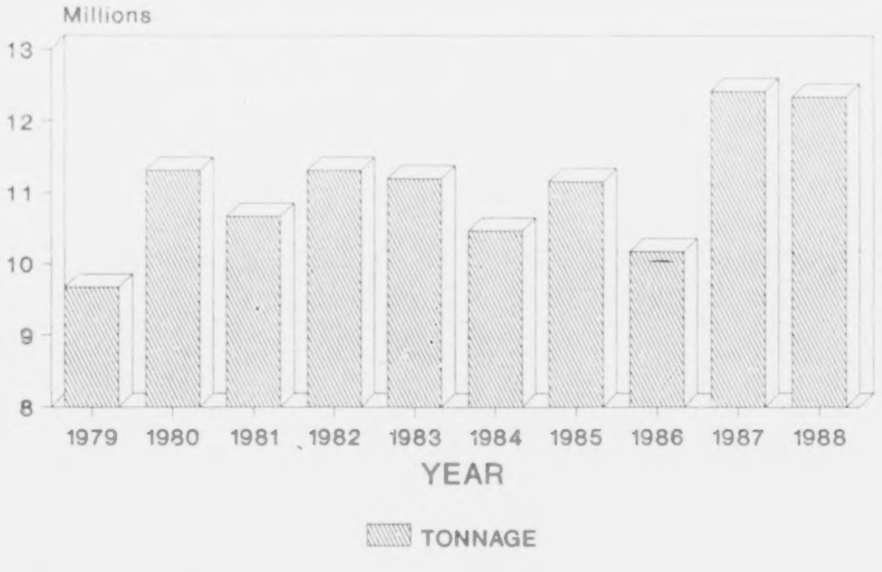
TOTAL TONNAGE BY GROUP



SOURCE: TABLE 1, PAGE 3

CALIFORNIA FRUIT AND NUT PRODUCTION

TOTAL TONNAGE 1979 - 1988



SOURCE: TABLE 1, PAGE 3

TABLE 2 --- CALIFORNIA NONCITRUS FRUITS: ACREAGE, PRODUCTION, PRICE, AND VALUE, 1979-88 (continued)

CROP	CROP YEAR	BEARING	NON-BEARING	TOTAL PRODUCTION	YIELD PER ACRE	GROWER RETURN a/	PRICE b/	TOTAL VALUE
		--- Acres ---		--- Tons ---		-- Dollars/Ton --		-- (000) Dollars --
APPLES	1979	21,800	4,200	300,000	13.80	184.00	202.00	60,600
	1980	22,400	4,900	260,000	11.60	138.00	140.00	36,520
	1981	23,100	4,300	313,000	13.50	140.00	142.00	42,924
	1982	22,800	5,100	240,000	10.50	220.00	224.00	53,847
	1983	23,800	5,400	230,000	9.66	231.00	236.00	54,218
	1984	21,300	6,600	260,000	12.20	249.00	260.00	67,645
	1985	21,800	7,300	310,000	14.20	186.00	188.00	58,540
	1986	21,200	8,400	257,500	12.10	318.00	326.00	83,903
	1987	22,500	6,900	325,000	14.40	216.00	222.00	72,070
	1988	22,200	6/12/89	275,000	12.40	306.00	312.00	85,800
APRICOTS	1979	24,200	1,100	140,000	5.79	254.00	265.00	37,037
	1980	24,100	2,000	125,000	5.19	271.00	288.00	36,000
	1981	22,600	2,000	86,500	3.83	294.00	308.00	26,615
	1982	21,800	2,100	115,000	5.28	301.00	318.00	34,337
	1983	22,300	2,000	89,500	4.01	286.00	306.00	26,989
	1984	22,800	1,700	123,000	5.39	285.00	302.00	34,178
	1985	23,000	1,900	128,000	5.57	251.00	255.00	26,276
	1986	22,000	1,400	50,000	2.27	356.00	371.00	18,564
	1987	22,000	1,100	110,000	5.00	322.00	333.00	33,970
	1988	21,500	6/12/89	95,000	4.42	327.00	340.00	29,613
AVOCADOS	78-79	43,500	20,000	123,000	2.83	691.00	691.00	84,993
	79-80	51,100	18,400	75,000	1.47	1496.00	1496.00	112,200
	80-81	59,500	16,300	238,000	4.00	357.00	357.00	84,966
	81-82	65,700	14,500	157,000	2.39	689.00	689.00	108,173
	82-83	68,000	9,000	202,000	2.97	460.00	460.00	92,920
	83-84	72,100	5,200	247,000	3.43	370.00	370.00	91,390
	84-85	73,000	2,600	200,000	2.74	582.00	582.00	116,400
	85-86	74,500	1,300	160,000	2.15	1,015.00	1,015.00	162,400
	86-87	75,000	1,000	278,000	3.71	338.00	338.00	93,964
	87-88	74,700	600	178,000	2.38	1,120.00	1,120.00	199,360
CHERRIES, SWEET	1979	11,200	1,200	36,500	3.26	792.00	811.00	29,616
	1980	11,300	1,900	46,000	4.07	623.00	632.00	29,094
	1981	10,800	1,600	34,250	3.17	711.00	722.00	24,731
	1982	10,700	1,600	12,300	1.15	1,331.00	1,361.00	16,737
	1983	10,600	1,100	16,800	1.58	872.00	876.00	14,717
	1984	10,800	1,000	37,200	3.44	686.00	687.00	25,569
	1985	10,900	1,000	23,500	2.16	1,050.00	1,050.00	24,641
	1986	10,400	1,500	8,400	0.81	1,210.00	1,220.00	10,211
	1987	10,300	1,200	45,000	4.37	631.00	636.00	28,615
	1988	10,300	6/12/89	26,000	2.52	768.00	771.00	20,040
DATES	1979	3,900	500	21,300	5.46	514.00	514.00	10,948
	1980	4,000	600	22,400	5.60	634.00	634.00	14,204
	1981	4,000	800	22,300	5.58	639.00	639.00	14,250
	1982	4,100	700	23,900	5.83	736.00	736.00	17,590
	1983	4,200	900	19,400	4.62	638.00	638.00	10,846
	1984	4,300	1,300	22,500	5.23	816.00	816.00	18,360
	1985	4,400	1,300	29,000	6.59	866.00	866.00	25,114
	1986	4,500	1,200	17,800	3.96	828.00	828.00	14,738
	1987	4,800	900	19,400	4.04	819.00	819.00	15,889
	1988	5,000	6/12/89	21,000	4.20	851.00	851.00	17,871
FIGS	1979	13,900	5,600	38,720	2.79	399.00	399.00	15,444
	1980	14,300	6,600	45,450	3.18	306.00	306.00	13,910
	1981	14,800	5,800	38,200	2.58	329.00	329.00	12,579
	1982	14,700	5,300	37,700	2.56	278.00	278.00	10,499
	1983	15,800	4,400	34,000	2.15	206.00	206.00	6,992
	1984	17,300	1,600	36,450	2.11	288.00	288.00	10,489
	1985	17,800	700	38,000	2.13	318.00	318.00	12,082
	1986	18,000	500	50,000	2.78	283.00	283.00	14,173
	1987	18,100	100	48,800	2.70	328.00	328.00	16,006
	1988	17,700	6/12/89	46,500	2.63	7/10/89	7/10/89	7/10/89

TABLE 2 --- CALIFORNIA NONCITRUS FRUITS: ACREAGE, PRODUCTION, PRICE, AND VALUE, 1979-88 (continued)

CROP	CROP YEAR	BEARING	NON-BEARING	TOTAL PRODUCTION	YIELD PER ACRE	GROWER RETURN a/	PRICE b/	TOTAL VALUE
		--- Acres ---		--- Tons ---		-- Dollars/Ton --		-- (000) Dollars --
GRAPES, ALL c/	1979	593,800	66,900	4,558,000	7.68	236.00	236.00	1,073,647
	1980	597,900	100,000	5,124,000	8.57	241.00	241.00	1,232,511
	1981	593,500	124,800	3,993,000	6.73	302.00	302.00	1,207,145
	1982	617,500	120,700	6,076,000	9.84	231.00	231.00	1,246,827
	1983	643,900	105,500	4,919,000	7.64	198.00	199.00	947,894
	1984	667,800	75,000	4,670,000	6.99	189.00	189.00	882,117
	1985	682,500	51,000	5,207,000	7.98	168.00	168.00	877,048
	1986	670,900	36,900	4,770,000	7.68	222.00	222.00	1,060,244
	1987	661,400	31,500	4,660,000	7.21	259.00	259.00	1,206,660
	1988	653,700	6/12/89	5,240,000	8.33	232.00	232.00	1,217,740
GRAPES, RAISIN c/ d/	1979	239,500	22,100	2,320,000	9.69	238.00	239.00	554,683
	1980	244,000	32,900	2,692,000	11.00	236.00	237.00	636,881
	1981	249,800	36,900	1,779,000	7.12	305.00	306.00	544,143
	1982	259,500	32,000	3,062,000	11.80	217.00	218.00	574,790
	1983	273,800	22,300	2,535,000	9.26	158.00	158.00	377,868
	1984	284,300	15,400	2,295,000	8.07	156.00	156.00	356,092
	1985	283,500	7,900	2,487,000	9.81	141.00	141.00	349,948
	1986	276,900	3,900	2,045,000	9.01	212.00	213.00	434,665
	1987	274,500	2,500	2,170,000	8.36	225.00	225.00	487,690
	1988	270,700	6/12/89	2,410,000	9.81	196.00	197.00	473,665
GRAPES, TABLE	1979	61,800	8,700	417,000	6.75	310.00	310.00	129,270
	1980	63,100	12,100	428,000	6.78	410.00	410.00	175,364
	1981	63,700	16,800	420,000	6.59	440.00	440.00	184,970
	1982	67,400	17,300	612,000	9.08	344.00	344.00	203,613
	1983	71,400	19,300	504,000	7.06	351.00	351.00	176,734
	1984	75,800	16,300	475,000	6.27	304.00	304.00	144,250
	1985	78,200	18,200	580,000	7.42	230.00	230.00	133,360
	1986	81,700	12,400	620,000	7.59	307.00	307.00	190,139
	1987	82,800	9,600	540,000	6.52	435.00	435.00	235,040
	1988	84,100	6/12/89	700,000	8.32	270.00	270.00	189,010
GRAPES, WINE	1979	292,500	36,100	1,821,000	6.23	214.00	214.00	389,694
	1980	290,800	55,000	2,004,000	6.89	210.00	210.00	420,266
	1981	280,000	71,100	1,794,000	6.41	266.00	266.00	478,032
	1982	290,600	71,400	2,402,000	8.27	218.00	218.00	468,424
	1983	298,700	63,900	1,880,000	6.29	209.00	209.00	393,292
	1984	307,700	43,300	1,900,000	6.17	201.00	201.00	381,775
	1985	320,800	24,900	2,140,000	6.67	184.00	184.00	393,740
	1986	312,300	20,600	2,105,000	6.74	207.00	207.00	435,440
	1987	304,100	19,400	1,950,000	6.41	248.00	248.00	483,930
	1988	298,900	6/12/89	2,130,000	7.13	261.00	261.00	555,065
KIWIFRUIT e/	1979							
	1980	1,600	2,700	5,300	3.31	2,400.00	2,400.00	10,080
	1981	3,000	2,800	6,900	2.30	2,000.00	2,000.00	11,000
	1982	3,400	2,800	15,500	4.56	920.00	920.00	10,580
	1983	3,100	2,300	13,500	4.35	1,235.00	1,235.00	14,203
	1984	3,700	2,100	18,000	4.86	1,068.00	1,068.00	17,729
	1985	4,800	1,400	22,000	4.58	813.00	813.00	16,667
	1986	5,600	1,300	24,300	4.34	1,030.00	1,030.00	24,102
	1987	6,500	600	29,000	4.46	710.00	710.00	18,886
	1988	6,700	6/12/89	31,000	4.63	790.00	790.00	22,989
NECTARINES	1979	16,200	9,500	172,000	10.60	197.00	197.00	33,884
	1980	18,400	9,000	191,000	10.40	231.00	231.00	44,045
	1981	21,000	7,400	182,000	8.67	229.00	229.00	41,610
	1982	22,200	2,400	178,000	8.02	249.00	249.00	44,254
	1983	23,000	5,400	185,000	8.04	299.00	299.00	55,374
	1984	24,500	2,800	183,000	7.47	316.00	316.00	57,779
	1985	22,400	3,300	210,000	9.38	327.00	327.00	68,723
	1986	22,800	3,200	172,000	7.54	440.00	440.00	75,720
	1987	23,100	2,500	191,000	8.27	343.00	343.00	65,545
	1988	23,600	6/12/89	200,000	8.47	394.00	394.00	78,861

TABLE 2 --- CALIFORNIA NONCITRUS FRUITS: ACREAGE, PRODUCTION, PRICE, AND VALUE, 1979-88 (continued)

CROP	CROP YEAR	BEARING	NON-BEARING	TOTAL PRODUCTION	YIELD PER ACRE	GROWER RETURN a/	PRICE b/	TOTAL VALUE
		--- Acres ---		--- Tons ---		-- Dollars/Ton --		-- (000) Dollars --
OLIVES	1979	36,900	1,700	62,000	1.68	399.00	408.00	25,296
	1980	36,300	1,500	109,000	3.00	359.00	368.00	40,137
	1981	34,300	1,200	44,900	1.31	685.00	695.00	31,222
	1982	35,000	700	146,500	4.19	514.00	517.00	75,795
	1983	35,100	700	61,000	1.74	509.00	519.00	31,641
	1984	33,800	1,000	90,600	2.68	550.00	557.00	50,441
	1985	32,900	1,400	96,000	2.92	559.00	566.00	54,303
	1986	32,300	1,600	111,500	3.45	587.00	594.00	66,184
	1987	31,500	1,600	67,500	2.14	618.00	625.00	42,192
	1988	30,900	6/12/89	87,500	2.83	557.00	564.00	49,318
PEACHES, ALL	1979	60,500	16,300	934,000	15.40	169.00	189.00	167,602
	1980	61,400	15,000	985,500	16.10	168.00	191.00	177,032
	1981	57,000	13,200	818,000	14.40	198.00	219.00	168,638
	1982	58,200	9,700	758,500	13.00	177.00	192.00	130,681
	1983	55,000	13,900	559,000	10.20	184.00	199.00	104,751
	1984	54,900	9,000	749,500	13.70	183.00	199.00	141,398
	1985	54,400	9,000	735,500	13.50	200.00	223.00	156,104
	1986	54,300	9,800	714,000	13.10	204.00	225.00	154,111
	1987	53,700	9,600	715,500	13.30	215.00	233.00	158,352
	1988	52,900	6/12/89	769,000	14.50	240.00	258.00	189,220
PEACHES, CLINGSTONE	1979	39,700	8,400	700,000	17.60	156.00	178.00	116,590
	1980	39,200	7,100	747,500	19.10	160.00	188.00	129,908
	1981	33,800	6,500	601,000	17.80	182.00	208.00	115,072
	1982	34,300	6,000	551,000	16.10	164.00	184.00	86,820
	1983	29,900	6,300	341,500	11.40	160.00	180.00	55,710
	1984	28,700	5,600	521,000	18.20	180.00	200.00	96,600
	1985	29,000	5,800	492,500	17.00	190.00	220.00	100,925
	1986	29,300	6,600	466,500	15.90	168.00	196.00	85,603
	1987	28,800	7,000	460,000	16.00	190.00	212.00	90,100
	1988	28,300	6/12/89	507,500	17.90	208.00	232.00	109,620
PEACHES, FREESTONE	1979	20,800	7,900	234,000	11.30	204.00	218.00	51,012
	1980	22,200	7,900	238,000	10.70	191.00	198.00	47,124
	1981	23,200	6,700	217,000	9.35	240.00	247.00	53,566
	1982	23,900	3,700	207,500	8.68	207.00	211.00	43,861
	1983	25,100	7,600	217,500	8.67	218.00	225.00	49,041
	1984	26,200	3,400	228,500	8.72	189.00	196.00	44,798
	1985	25,400	3,200	243,000	9.57	220.00	228.00	55,179
	1986	25,000	3,200	247,500	9.90	267.00	276.00	68,508
	1987	24,900	2,600	255,500	10.30	256.00	268.00	68,252
	1988	24,600	6/12/89	261,500	10.60	298.00	304.00	79,600
PEARS, ALL	1979	36,800	2,200	364,800	9.91	173.00	197.00	71,973
	1980	35,600	1,700	397,700	11.20	155.00	184.00	73,195
	1981	31,200	1,700	376,000	12.10	150.00	176.00	66,286
	1982	30,100	1,400	321,500	10.70	128.00	150.00	48,164
	1983	26,800	1,600	267,700	10.00	122.00	148.00	39,530
	1984	25,500	1,600	312,000	12.20	154.00	179.00	53,534
	1985	24,700	1,700	292,500	11.80	213.00	238.00	69,735
	1986	23,100	2,100	294,000	12.70	204.00	232.00	68,140
	1987	23,100	1,700	337,000	14.60	172.00	192.00	64,794
	1988	22,400	6/12/89	303,000	13.50	132.00	246.00	74,589
PEARS, BARTLETT	1979	35,100	1,700	355,000	10.10	172.00	197.00	69,935
	1980	33,900	1,200	387,000	11.40	155.00	185.00	71,496
	1981	29,800	800	366,000	12.30	149.00	176.00	64,514
	1982	28,700	500	314,000	10.90	126.00	148.00	46,410
	1983	25,400	500	259,500	10.20	115.00	142.00	36,812
	1984	24,200	400	302,000	12.50	150.00	176.00	51,007
	1985	23,400	400	282,000	12.10	207.00	233.00	65,814
	1986	21,900	400	285,000	13.00	195.00	223.00	63,445
	1987	21,700	200	325,000	15.00	155.00	176.00	57,058
	1988	20,700	6/12/89	292,000	14.10	207.00	237.00	69,308

TABLE 2 --- CALIFORNIA NONCITRUS FRUITS: ACREAGE, PRODUCTION, PRICE, AND VALUE, 1979-88 (continued)

CROP	CROP YEAR	BEARING	NON-BEARING	TOTAL PRODUCTION	YIELD PER ACRE	GROWER RETURN a/	PRICE b/	TOTAL VALUE
		--- Acres ---		--- Tons ---		-- Dollars/Ton --		-- (000) Dollars --
PEARS, OTHER	1979	1,700	500	9,800	5.76	197.00	208.00	2,038
	1980	1,700	500	10,700	6.29	149.00	159.00	1,699
	1981	1,400	900	10,000	7.14	168.00	177.00	1,772
	1982	1,400	900	7,500	5.36	220.00	234.00	1,754
	1983	1,400	1,100	8,200	5.86	330.00	331.00	2,718
	1984	1,300	1,200	10,000	7.69	253.00	253.00	2,527
	1985	1,300	1,300	10,500	8.08	367.00	373.00	3,921
	1986	1,200	1,700	9,000	7.50	519.00	522.00	4,595
	1987	1,400	1,500	12,000	8.57	644.00	645.00	7,[illegible]36
	1988	1,700	6/12/89	11,000	6.47	480.00	480.00	5,281
PLUMS	1979	28,500	11,500	175,000	6.14	277.00	277.00	48,475
	1980	29,400	11,500	160,000	5.44	449.00	449.00	71,810
	1981	30,900	9,800	197,500	6.39	309.00	309.00	61,062
	1982	32,900	4,100	118,000	3.59	620.00	620.00	73,139
	1983	34,900	8,500	158,500	4.54	435.00	435.00	69,020
	1984	35,800	6,900	225,000	6.28	212.00	212.00	47,796
	1985	36,600	5,600	166,500	4.55	514.00	514.00	85,512
	1986	38,200	4,700	152,000	3.98	657.00	657.00	99,857
	1987	39,200	3,600	245,000	6.25	308.00	308.00	75,361
	1988	40,000	6/12/89	216,000	5.40	475.00	475.00	102,661
POMEGRANATES	1979	2,800	1,000	13,000	4.64	324.00	324.00	3,564
	1980	3,100	900	17,000	5.48	259.00	259.00	4,144
	1981	3,300	1,000	16,500	5.00	278.00	278.00	4,114
	1982	3,300	900	16,000	4.85	232.00	232.00	3,341
	1983	3,300	700	20,000	6.06	270.00	272.00	5,147
	1984	3,400	500	20,000	5.88	105.00	106.00	2,010
	1985	3,600	300	19,400	5.39	317.00	318.00	5,529
	1986	3,500	300	22,000	6.29	394.00	395.00	7,666
	1987	3,400	200	18,500	5.44	340.00	340.00	5,617
	1988	3,400	6/12/89	15,000	4.41	7/10/89	7/10/89	7/10/89
PRUNES (Dried Basis)	1979	74,700	12,100	136,000	1.82	812.00	812.00	110,432
	1980	69,600	13,300	168,000	2.41	683.00	683.00	114,744
	1981	65,400	13,300	159,500	2.44	654.00	654.00	104,313
	1982	66,600	12,900	126,000	1.89	679.00	679.00	85,554
	1983	67,700	13,300	145,000	2.14	667.00	667.00	96,715
	1984	68,700	13,200	148,000	2.15	693.00	693.00	102,564
	1985	71,700	12,800	141,000	1.97	680.00	680.00	95,800
	1986	72,600	10,400	99,000	1.36	819.00	819.00	81,081
	1987	75,400	6,700	229,000	3.04	735.00	735.00	168,315
	1988	75,800	6/12/89	155,000	2.04	7/10/89	7/10/89	7/10/89

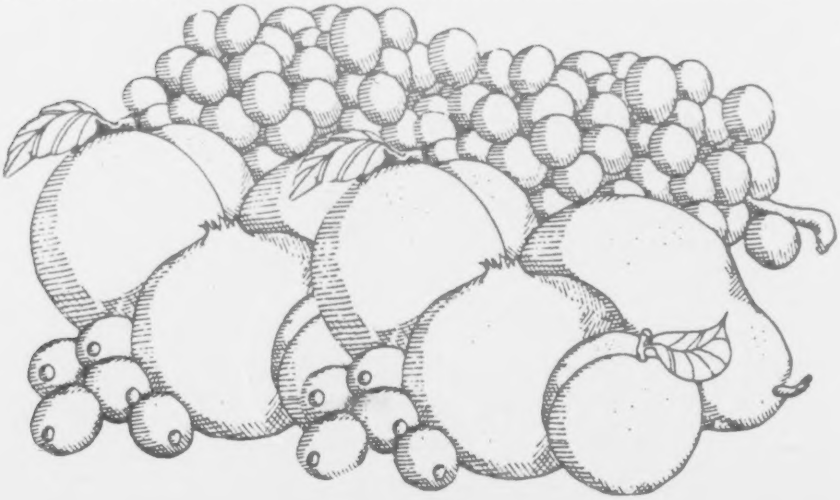


TABLE 3 --- CALIFORNIA CITRUS FRUITS: ACREAGE, PRODUCTION, PRICE, AND VALUE, 1978-88

CROP	CROP YEAR	BEARING	NON-BEARING	TOTAL PRODUCTION	YIELD PER ACRE	GROWER RETURN PER BOX	TOTAL VALUE
		--- Acres ---		(000) Boxes	- Boxes -	-- Dollars --	-- (000) Dollars --
GRAPEFRUIT, ALL a/	1978-79	19,600	5,600	6,130	313	4.97	30,446
	1979-80	21,300	3,500	7,500	352	2.96	22,216
	1980-81	21,800	3,200	8,060	370	4.58	36,929
	1981-82	22,000	2,300	6,150	280	3.20	19,661
	1982-83	21,700	1,800	7,300	336	3.33	24,304
	1983-84	21,900	1,500	7,240	331	4.23	30,652
	1984-85	21,100	1,300	8,800	417	7.15	62,936
	1985-86	20,900	1,300	8,100	388	7.33	59,280
	1986-87	20,700	1,500	9,300	449	6.06	56,251
	1987-88	20,600	900	8,900	432	6.25	55,404
GRAPEFRUIT, DESERT VALLEY	1978-79	9,900		3,260	329	3.64	11,867
	1979-80	10,300		4,200	408	2.33	9,781
	1980-81	10,100	b/	4,260	422	4.34	18,501
	1981-82	10,400	700	3,400	327	3.02	10,282
	1982-83	9,900	700	4,100	414	2.82	11,576
	1983-84	10,300	700	3,340	324	4.01	13,388
	1984-85	9,700	400	3,800	392	6.83	25,956
(Net weight per box: 64 pounds)	1985-86	9,400	500	3,600	383	6.81	24,504
	1986-87	9,200	600	4,300	467	5.48	23,578
	1987-88	9,000	400	4,200	467	5.24	22,008
GRAPEFRUIT, OTHER AREAS	1978-79	9,700		2,870	296	6.47	18,579
	1979-80	11,000		3,300	300	3.77	12,435
	1980-81	11,700	b/	3,800	325	4.85	18,428
	1981-82	11,600	1,600	2,750	237	3.41	9,379
	1982-83	11,800	1,100	3,200	271	3.98	12,728
	1983-84	11,600	800	3,900	336	4.43	17,264
	1984-85	11,400	900	5,000	439	7.40	36,980
(Net weight per box: 67 pounds)	1985-86	11,500	800	4,500	391	7.73	34,776
	1986-87	11,500	900	5,000	435	6.53	32,673
	1987-88	11,600	500	4,700	405	7.11	33,396
ORANGES, ALL	1978-79	186,400	4,300	37,300	200	6.88	256,788
	1979-80	185,100	4,300	59,400	321	3.85	228,772
	1980-81	183,300	4,300	65,250	356	4.47	291,797
	1981-82	180,300	4,700	41,900	232	8.80	368,740
	1982-83	177,300	4,500	76,100	429	4.16	316,699
	1983-84	177,600	5,200	48,500	273	8.21	398,161
(All varieties--net weight per box: 75 pounds)	1984-85	175,300	6,800	52,400	299	9.66	505,970
	1985-86	174,700	7,600	53,900	309	6.77	364,952
	1986-87	173,000	12,700	57,900	335	7.50	434,124
	1987-88	172,000	13,500	58,800	342	7.80	458,446
ORANGES, NAVEL & MISC.	1978-79	111,000	3,500	20,800	187	7.05	146,718
	1979-80	111,100	3,200	32,600	293	3.93	128,189
	1980-81	110,200	3,100	38,750	352	4.01	155,341
	1981-82	108,100	2,900	26,500	245	7.22	191,436
	1982-83	108,900	2,700	40,200	369	4.61	185,328
	1983-84	109,500	2,800	33,700	308	5.57	187,721
	1984-85	108,000	3,500	26,200	243	11.36	297,610
	1985-86	107,100	4,200	33,000	308	7.15	235,980
	1986-87	106,100	7,400	34,500	325	7.04	242,840
	1987-88	105,500	8,100	31,500	299	7.82	246,462
ORANGES, VALENCIA	1978-79	75,400	800	16,500	219	6.67	110,070
	1979-80	74,000	1,100	26,800	362	3.75	100,583
	1980-81	73,100	1,200	26,500	363	5.15	136,456
	1981-82	72,200	1,800	15,400	213	11.51	177,304
	1982-83	68,400	1,800	35,900	525	3.66	131,371
	1983-84	68,100	2,400	14,800	217	14.22	210,440
	1984-85	67,300	3,300	26,200	389	7.95	208,360
	1985-86	67,600	3,400	20,900	309	6.17	128,972
	1986-87	66,900	5,300	23,400	350	8.17	191,284
	1987-88	66,500	5,400	27,300	411	7.76	211,984

TABLE 3 --- CALIFORNIA CITRUS FRUITS: ACREAGE, PRODUCTION, PRICE, AND VALUE, 1978-88

CROP	CROP YEAR	BEARING	NON-BEARING	TOTAL PRODUCTION	YIELD PER ACRE	GROWER RETURN PER BOX	TOTAL VALUE
		--- Acres ---		(000) Boxes	- Boxes -	-- Dollars --	-- (000) Dollars --
LEMONS	1978-79	50,300	7,200	14,100	280	7.98	112,487
	1979-80	49,800	7,700	17,700	355	8.12	143,674
	1980-81	52,700	5,700	24,300	461	5.04	122,384
	1981-82	54,200	4,800	18,500	341	4.58	84,744
	1982-83	52,000	2,700	20,300	390	4.38	89,011
	1983-84	51,500	2,200	17,250	335	6.15	106,163
	1984-85	49,600	1,800	19,800	399	7.10	140,514
(Net weight per box:	1985-86	48,800	1,500	15,100	309	11.29	170,426
76 pounds)	1986-87	48,900	1,100	21,500	440	7.11	152,890
	1987-88	48,900	500	17,000	348	10.08	171,436
TANGERINES c/	1978-79	8,700	1,100	1,450	167	10.26	14,870
	1979-80	8,400	1,200	1,650	196	4.67	7,709
(Including Mandarines	1980-81	8,400	1,200	1,860	221	4.08	7,598
and Mandarin Hybrids,	1981-82	8,400	1,400	1,730	206	7.93	13,724
Tangelos and Tangors)	1982-83	8,900	1,100	2,150	242	6.19	13,312
	1983-84	8,600	1,000	1,850	215	7.34	13,583
	1984-85	8,700	800	1,680	193	12.62	21,209
(Net weight per box:	1985-86	8,500	600	1,800	212	12.19	21,940
75 pounds)	1986-87	8,600	600	2,230	259	11.52	25,697
	1987-88	8,200	600	2,090	255	15.45	32,297

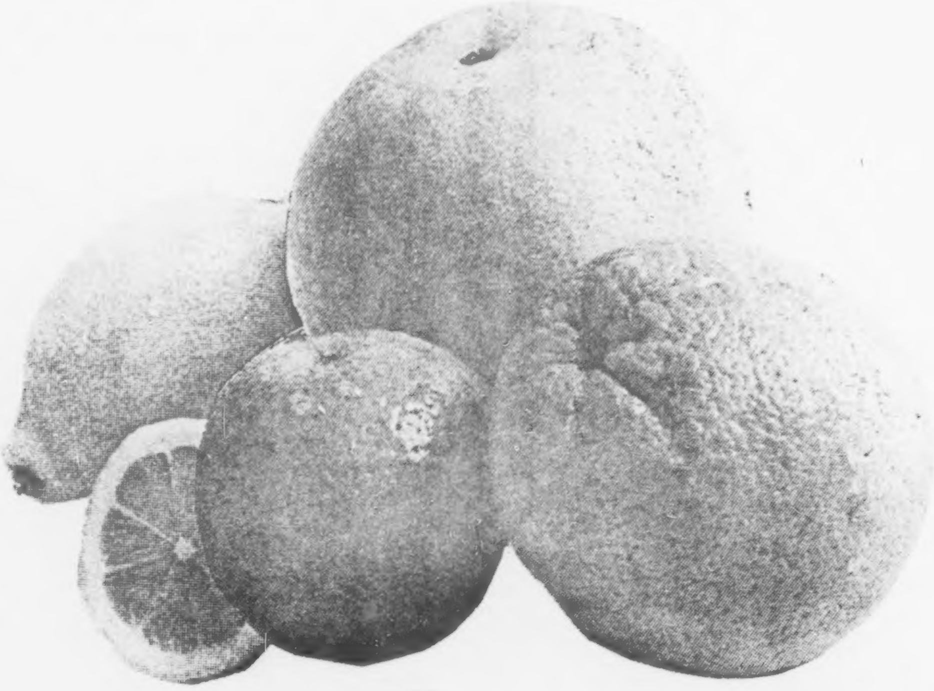


TABLE 4 --- CALIFORNIA NUTS: ACREAGE, PRODUCTION, PRICE, [illegible] VALUE, 1979-88

CROP	CROP YEAR	BEARING	NON-BEARING	TOTAL PRODUCTION	YIELD PER ACRE	GROWER RETURN	TOTAL VALUE
		--- Acres ---		-- (000) Pounds --	Pounds	Cents/Lb.	-- (000) Dollars --
ALMONDS	1979	324,100	41,900	376,000	1,160	153.0	575,280
a/	1980	326,800	62,200	322,000	985	147.0	473,340
	1981	326,200	86,200	408,000	1,250	78.0	299,520
	1982	339,300	89,400	347,000	1,020	94.0	311,140
	1983	359,700	76,900	242,000	673	104.0	231,920
	1984	379,600	58,200	590,000	1,550	77.4	446,134
	1985	409,200	29,900	465,000	1,140	80.0	360,640
	1986	415,600	17,200	250,000	602	192.0	461,568
	1987	411,000	12,500	650,000	1,610	100.0	648,000
	1988	406,000	6/12/89	580,000	1,430	105.0	589,575

CROP	CROP YEAR	BEARING	NON-BEARING	TOTAL PRODUCTION	YIELD PER ACRE	GROWER RETURN	TOTAL VALUE
		--- Acres ---		-- (000) Pounds --	Pounds	Cents/Lb.	-- (000) Dollars --
PECANS	1979	480	780				
b/	1980	520	1,200				
	1981	580	2,500				
	1982	680	2,800				
	1983	680	1,800				
	1984	830	1,600				
	1985	1,200	1,400				
	1986	1,400	1,300				
	1987	1,800	900	1,100	611	80.0	880
	1988	2,300	6/12/89	2,000	870	70.0	1,400

CROP	CROP YEAR	BEARING	NON-BEARING	MARKETABLE IN-SHELL	SHELLING STOCK	TOTAL PRODUCTION	YIELD PER ACRE	GROWER RETURN	TOTAL VALUE
		--- Acres ---		-- (000) Pounds --			Pounds	Cents/Lb.	-- (000) Dollars --
PISTACHIOS	1979	25,400	6,200	17,200		17,200	677	160.0	27,520
	1980	26,000	9,000	18,600	8,300	26,900	1,035	205.0	55,145
(In-Shell	1981	27,500	13,100	11,300	3,200	14,500	527	136.0	19,759
Basis)	1982	29,900	15,600	37,500	5,900	43,400	1,450	145.0	63,068
	1983	31,100	16,000	21,000	5,400	26,400	849	142.0	37,488
c/	1984	31,100	16,800	45,300	17,800	63,100	2,030	98.0	61,838
	1985	32,300	18,700	22,600	4,500	27,100	839	135.0	36,471
	1986	34,200	20,400	53,500	21,400	74,900	2,190	106.0	79,501
	1987	40,300	13,800	29,000	4,100	33,100	821	143.0	47,419
	1988	44,500	6/12/89	72,000	20,000	92,000	2,070	112.0	103,400

CROP	CROP YEAR	BEARING	NON-BEARING	TOTAL PRODUCTION	YIELD PER ACRE	GROWER RETURN	TOTAL VALUE
		--- Acres ---		--- Tons ---	Tons	$/Ton	-- (000) Dollars --
WALNUTS	1979	179,200	22,100	208,000	1.16	847	176,176
	1980	179,900	23,200	197,000	1.10	936	184,392
	1981	175,100	22,900	225,000	1.28	1,014	228,150
	1982	178,000	19,600	234,000	1.31	1,020	238,680
	1983	176,800	19,900	199,000	1.13	631	125,569
	1984	178,200	20,300	213,000	1.20	730	155,490
	1985	178,600	21,700	219,000	1.23	798	174,762
	1986	179,800	20,800	180,000	1.00	1,080	194,400
	1987	175,200	21,500	247,000	1.41	984	243,048
	1988	174,200	6/12/89	200,000	1.15	7/10/89	7/10/89

TABLE 5 --- CALIFORNIA NONCITRUS FRUITS: UTILIZED PRODUCTION AND AVERAGE GROWER RETURN PER TON, BY UTILIZATION CATEGORY, 1979-88

CROP	CROP YEAR	TOTAL UTILIZED PRODUCTION	FOR FRESH MARKET		FOR PROCESSING											
					TOTAL		CANNED		CRUSHED		FROZEN		DRIED,(Fresh Basis)		DRIED BASIS	
			QUANTITY	GROWER RETURN	QUANTITY	GROWER RETURN	QUANTITY	GROWER RETURN	QUANIITY	GROWER RETURN	QUANTITY	GROWER RETURN	QUANTITY	GROWER RETURN	QUANTITY	GROWER RETURN
		Short Tons	-Tons-	$/Ton	-Tons-	$/Ton	-Tons-	$/Ton	-Tons-	$/Ton	-Tons-	$/Ton	-Tons-	$/Ton	-Tons-	$/Ton
APPLES	1979	300,000	65,000	338.00	235,000	142.00	67,000	159.00	122,000	136.00	---	---	46,000	135.00	5,200	1,202.00
	1980	260,000	80,000	272.00	180,000	79.00	62,000	94.00	100,000	68.00	---	---	18,000	92.00	2,140	773.00
	1981	303,000	72,000	379.00	231,000	65.00	60,000	85.00	157,000	56.00	---	---	14,000	78.00	1,400	780.00
	1982	240,000	73,500	420.00	166,500	132.00	35,000	149.00	123,000	127.00	---	---	8,500	128.00	1,000	1,088.00
	1983	230,000	75,500	448.00	154,500	125.00	40,000	150.00	106,000	114.00	---	---	8,500	150.00	1,000	1,275.00
	1984	242,500	92,500	514.00	150,000	104.00	40,000	130.00	95,000	90.00	---	---	15,000	123.00	1,765	1,046.00
	1985	310,000	80,000	450.00	230,000	93.00	50,000	124.00	140,000	73.00	---	---	40,000	124.00	4,700	1,054.00
	1986	257,500	108,500	614.00	149,000	102.00	24,500	134.00	108,000	90.00	---	---	16,500	135.00	1,950	1,148.00
	1987	325,000	115,000	466.00	210,000	78.00	40,000	115.00	146,000	62.00	---	---	24,000	116.00	2,900	960.00
	1988	275,000	7/10/89	7/10/89	7/10/89	7/10/89	7/10/89	7/10/89	7/10/89	7/10/89	---	---	7/10/89	7/10/89	7/10/89	7/10/89
APRICOTS	1979	140,000	7,000	370.00	133,000	248.00	84,000	239.00	---	---	10,000	222.00	39,000	275.00	5,340	2,035.00
	1980	125,000	9,500	634.00	115,500	241.00	80,500	240.00	---	---	7,900	201.00	27,100	252.00	3,600	1,897.00
	1981	86,500	9,500	524.00	77,000	265.00	43,500	250.00	---	---	8,500	272.00	25,000	286.00	3,600	1,882.00
	1982	115,000	8,000	507.00	107,000	287.00	62,000	258.00	---	---	12,000	253.00	33,000	353.00	4,800	2,427.00
	1983	89,500	6,500	615.00	83,000	261.00	43,800	242.00	---	---	11,000	258.00	28,200	291.00	4,100	2,002.00
	1984	113,000	12,200	488.00	100,800	261.00	66,800	255.00	---	---	11,500	273.00	22,500	274.00	3,520	1,750.00
	1985	103,000	17,000	458.00	86,000	210.00	61,000	211.00	---	---	12,000	180.00	13,000	235.00	2,000	1,530.00
	1986	50,000	6,300	1,060.00	43,700	254.00	27,000	242.00	---	---	7,200	277.00	9,500	271.00	1,400	1,840.00
	1987	102,000	12,300	625.00	89,700	280.00	53,000	268.00	---	---	13,100	279.00	23,600	310.00	3,013	2,450.00
	1988	87,000	12,600	626.00	74,400	276.00	44,500	261.00	---	---	12,200	275.00	17,700	314.00	2,640	2,104.00
AVOCADOS a/	78-79	123,000	123,000	691.00	---	---	---	---	---	---	---	---	---	---	---	---
	79-80	75,000	75,000	1,496.00	---	---	---	---	---	---	---	---	---	---	---	---
	80-81	238,000	238,000	357.00	---	---	---	---	---	---	---	---	---	---	---	---
	81-82	157,000	157,000	689.00	---	---	---	---	---	---	---	---	---	---	---	---
	82-83	202,000	202,000	460.00	---	---	---	---	---	---	---	---	---	---	---	---
	83-84	247,000	247,000	370.00	---	---	---	---	---	---	---	---	---	---	---	---
	84-85	200,000	200,000	582.00	---	---	---	---	---	---	---	---	---	---	---	---
	85-86	160,000	160,000	1,015.00	---	---	---	---	---	---	---	---	---	---	---	---
	86-87	278,000	278,000	338.00	---	---	---	---	---	---	---	---	---	---	---	---
	87-88	178,000	178,000	1,120.00	---	---	---	---	---	---	---	---	---	---	---	---
CHERRIES, SWEET b/	1979	36,500	20,200	890.00	16,300	683.00	---	---	---	---	---	---	---	---	---	---
	1980	46,000	32,400	720.00	13,600	406.00	---	---	---	---	---	---	---	---	---	---
	1981	34,250	25,500	801.00	8,750	464.00	---	---	---	---	---	---	---	---	---	---
	1982	12,300	9,700	1,536.00	2,600	639.00	---	---	---	---	---	---	---	---	---	---
	1983	16,800	12,900	973.00	3,900	536.00	---	---	---	---	---	---	---	---	---	---
	1984	37,200	27,600	804.00	9,600	348.00	---	---	---	---	---	---	---	---	---	---
	1985	23,500	19,350	1,160.00	4,150	526.00	---	---	---	---	---	---	---	---	---	---
	1986	8,400	6,600	1,390.00	1,800	565.00	---	---	---	---	---	---	---	---	---	---
	1987	45,000	34,000	686.00	11,000	459.00	---	---	---	---	---	---	---	---	---	---
	1988	26,000	19,500	874.00	6,500	448.00	---	---	---	---	---	---	---	---	---	---

TABLE 5 --- CALIFORNIA NONCITRUS FRUITS: UTILIZED PRODUCTION AND AVERAGE GROWER RETURN PER TON, BY UTILIZATION CATEGORY, 1979-88

CROP	CROP YEAR	TOTAL UTILIZED PRODUCTION	FOR FRESH MARKET		FOR PROCESSING											
					TOTAL		CANNED		CRUSHED		FROZEN		DRIED,(Fresh Basis)		DRIED BASIS	
			QUANTITY	GROWER RETURN	QUANTITY	GROWER RETURN	QUANTITY	GROWER RETURN	QUANTITY	GROWER RETURN	QUANTITY	GROWER RETURN	QUANTITY	GROWER RETURN	QUANTITY	GROWER RETURN
		Short Tons	-Tons-	$/Ton	-Tons-	$/Ton	-Tons-	$/Ton	-Tons-	$/Ton	-Tons-	$/Ton	-Tons-	$/Ton	-Tons-	$/Ton
DATES	1979	21,300	21,300	514.00	---	---	---	---	---	---	---	---	---	---	---	---
	1980	22,400	22,400	634.00	---	---	---	---	---	---	---	---	---	---	---	---
	1981	22,300	22,300	639.00	---	---	---	---	---	---	---	---	---	---	---	---
	1982	23,900	23,900	736.00	---	---	---	---	---	---	---	---	---	---	---	---
	1983	17,000	17,000	638.00	---	---	---	---	---	---	---	---	---	---	---	---
	1984	22,200	22,200	791.00	---	---	---	---	---	---	---	---	---	---	---	---
	1985	28,900	28,900	866.00	---	---	---	---	---	---	---	---	---	---	---	---
	1986	17,800	17,800	828.00	---	---	---	---	---	---	---	---	---	---	---	---
	1987	19,400	19,400	819.00	---	---	---	---	---	---	---	---	---	---	---	---
	1988	21,000	21,000	851.00	---	---	---	---	---	---	---	---	---	---	---	---
FIGS c/	1979	38,720	3,800	416.00	34,920	406.00	---	---	---	---	---	---	34,920	406.00	---	---
	1980	45,450	2,100	493.00	43,350	296.00	---	---	---	---	---	---	43,350	296.00	---	---
	1981	38,200	1,600	542.00	36,600	320.00	---	---	---	---	---	---	36,600	320.00	---	---
	1982	37,700	1,100	461.00	36,600	273.00	---	---	---	---	---	---	36,600	273.00	---	---
	1983	34,000	850	426.00	33,150	200.00	---	---	---	---	---	---	33,150	200.00	---	---
	1984	36,450	1,950	442.00	34,500	279.00	---	---	---	---	---	---	34,500	279.00	---	---
	1985	32,600	1,400	794.00	31,200	283.00	---	---	---	---	---	---	31,200	283.00	---	---
	1986	50,000	1,400	---	48,600	---	---	---	---	---	---	---	48,600	---	---	---
	1987	48,800	1,700	---	47,100	---	---	---	---	---	---	---	47,100	---	---	---
	1988	46,500	1,500	---	45,000	---	---	---	---	---	---	---	45,000	---	---	---
GRAPES, ALL d/	1979	4,558,000	500,000	402.00	4,058,000	215.00	60,000	228.00	2,617,100	194.00	---	---	1,380,900	253.00	303,390	1,151.00
	1980	5,124,000	545,000	548.00	4,579,000	204.00	63,000	229.00	2,896,000	188.00	---	---	1,620,000	230.00	310,550	1,198.00
	1981	3,993,000	503,000	513.00	3,490,000	272.00	42,000	225.00	2,416,000	248.00	---	---	1,032,000	329.00	258,000	1,314.00
	1982	5,386,000	680,200	442.00	4,705,800	201.00	35,000	203.00	3,123,300	191.00	---	---	1,547,500	221.00	295,300	1,156.00
	1983	4,775,000	645,500	422.00	4,129,500	163.00	35,000	178.00	2,309,500	188.00	---	---	1,785,000	132.00	398,500	590.00
	1984	4,656,000	650,000	348.00	4,006,000	164.00	30,000	183.00	2,583,500	169.00	---	---	1,392,500	153.00	335,350	635.00
	1985	5,207,000	753,000	273.00	4,454,000	151.00	45,000	178.00	2,843,300	159.00	---	---	1,565,700	135.00	347,940	605.00
	1986	4,770,000	746,500	442.00	4,023,500	179.00	40,000	180.00	2,795,000	183.00	---	---	1,188,500	168.00	278,900	716.00
	1987	4,660,000	685,000	519.00	3,975,000	214.00	40,000	190.00	2,496,000	219.00	---	---	1,439,000	206.00	358,000	828.00
	1988	5,240,000	766,000	396.00	4,474,000	204.00	40,000	200.00	2,737,000	226.00	---	---	1,697,000	169.00	339,400	845.00
GRAPES, RAISIN d/	1979	2,320,000	184,000	464.00	2,136,000	219.00	60,000	228.00	700,000	151.00	---	---	1,376,000	253.00	302,300	1,151.00
	1980	2,692,000	239,000	571.00	2,453,000	203.00	63,000	229.00	778,000	144.00	---	---	1,612,000	230.00	309,000	1,198.00
	1981	1,779,000	204,000	467.00	1,575,000	285.00	42,000	225.00	509,000	199.00	---	---	1,024,000	329.00	256,000	1,315.00
	1982	2,642,000	303,000	431.00	2,339,000	189.00	35,000	203.00	774,000	127.00	---	---	1,530,000	220.00	292,000	1,154.00
	1983	2,391,000	252,000	413.00	2,139,000	128.00	35,000	178.00	330,000	104.00	---	---	1,774,000	131.00	396,000	587.00
	1984	2,281,000	275,000	332.00	2,006,000	132.00	30,000	183.00	587,000	79.00	---	---	1,389,000	153.00	334,500	635.00
	1985	2,487,000	326,000	278.00	2,161,000	120.00	45,000	178.00	559,000	75.00	---	---	1,557,000	134.00	346,000	612.00
	1986	2,045,000	320,000	512.00	1,725,000	156.00	40,000	180.00	505,000	105.00	---	---	1,180,000	177.00	277,000	757.00
	1987	2,170,000	260,000	502.00	1,910,000	187.00	40,000	190.00	440,000	123.00	---	---	1,430,000	206.00	356,000	827.00
	1988	2,410,000	285,000	469.00	2,125,000	159.00	40,000	200.00	400,000	115.00	---	---	1,685,000	169.00	337,000	845.00

TABLE 5 --- CALIFORNIA NONCITRUS FRUITS: UTILIZED PRODUCTION AND AVERAGE GROWER RETURN PER TON, BY UTILIZATION CATEGORY, 1979-88

CROP	CROP YEAR	TOTAL UTILIZED PRODUCTION	FOR FRESH MARKET		FOR PROCESSING											
					TOTAL		CANNED		CRUSHED		FROZEN		DRIED, (Fresh Basis)		DRIED BASIS	
			QUANTITY	GROWER RETURN	QUANTITY	GROWER RETURN	QUANTITY	GROWER RETURN	QUANTITY	GROWER RETURN	QUANTITY	GROWER RETURN	QUANTITY	GROWER RETURN	QUANTITY	GROWER RETURN
		Short Tons	-Tons-	$/Ton	-Tons-	$/Ton	-Tons-	$/Ton	-Tons-	$/Ton	-Tons-	$/Ton	-Tons-	$/Ton	-Tons-	$/Ton
GRAPES, TABLE	1979	417,000	228,000	436.00	189,000	158.00	---	---	184,100	155.00	---	---	4,900	267.00	1,090	1,200.00
	1980	428,000	224,000	649.00	204,000	147.00	---	---	196,000	144.00	---	---	8,000	224.00	1,550	1,120.00
	1981	420,000	230,000	639.00	190,000	200.00	---	---	182,000	195.00	---	---	8,000	322.00	2,000	1,286.00
	1982	592,000	311,200	515.00	280,800	154.00	---	---	263,300	149.00	---	---	17,500	235.00	3,300	1,246.00
	1983	504,000	300,500	494.00	203,500	139.00	---	---	192,500	134.00	---	---	11,000	231.00	2,500	1,016.00
	1984	475,000	300,000	405.00	175,000	130.00	---	---	171,500	130.00	---	---	3,500	148.00	850	609.00
	1985	580,000	355,000	292.00	225,000	132.00	---	---	216,300	131.00	---	---	8,700	145.00	1,940	650.00
	1986	620,000	376,500	419.00	243,500	133.00	---	---	235,000	133.00	---	---	8,500	130.00	1,900	582.00
	1987	540,000	370,000	570.00	170,000	142.00	---	---	161,000	140.00	---	---	9,000	174.00	2,000	783.00
	1988	700,000	426,000	362.00	274,000	127.00	---	---	262,000	125.00	---	---	12,000	180.00	2,400	900.00
GRAPES, WINE	1979	1,821,000	88,000	184.00	1,733,000	215.00	---	---	1,733,000	215.00	---	---	---	---	---	---
	1980	2,004,000	82,000	203.00	1,922,000	210.00	---	---	1,922,000	210.00	---	---	---	---	---	---
	1981	1,794,000	69,000	228.00	1,725,000	268.00	---	---	1,725,000	268.00	---	---	---	---	---	---
	1982	2,152,000	66,000	144.00	2,086,000	220.00	---	---	2,086,000	220.00	---	---	---	---	---	---
	1983	1,880,000	93,000	213.00	1,787,000	209.00	---	---	1,787,000	209.00	---	---	---	---	---	---
	1984	1,900,000	75,000	175.00	1,825,000	202.00	---	---	1,825,000	202.00	---	---	---	---	---	---
	1985	2,140,000	72,000	155.00	2,068,000	185.00	---	---	2,068,000	185.00	---	---	---	---	---	---
	1986	2,105,000	50,000	160.00	2,055,000	208.00	---	---	2,055,000	208.00	---	---	---	---	---	---
	1987	1,950,000	55,000	254.00	1,895,000	248.00	---	---	1,895,000	248.00	---	---	---	---	---	---
	1988	2,130,000	55,000	283.00	2,075,000	260.00	---	---	2,075,000	260.00	---	---	---	---	---	---
KIWIFRUIT e/	1979															
	1980	4,200	4,200	2,400.00	---	---	---	---	---	---	---	---	---	---	---	---
	1981	5,500	5,500	2,000.00	---	---	---	---	---	---	---	---	---	---	---	---
	1982	11,500	11,500	920.00	---	---	---	---	---	---	---	---	---	---	---	---
	1983	11,500	11,500	1,235.00	---	---	---	---	---	---	---	---	---	---	---	---
	1984	16,600	16,600	1,068.00	---	---	---	---	---	---	---	---	---	---	---	---
	1985	20,500	20,500	813.00	---	---	---	---	---	---	---	---	---	---	---	---
	1986	23,400	23,400	1,030.00	---	---	---	---	---	---	---	---	---	---	---	---
	1987	26,600	26,600	710.00	---	---	---	---	---	---	---	---	---	---	---	---
	1988	29,100	29,100	790.00	---	---	---	---	---	---	---	---	---	---	---	---
NECTARINES	1979	172,000	171,000	198.00	1,000	69.00	---	---	---	---	---	---	---	---	---	---
	1980	191,000	190,500	231.00	500	78.00	---	---	---	---	---	---	---	---	---	---
	1981	182,000	181,500	229.00	500	91.00	---	---	---	---	---	---	---	---	---	---
	1982	178,000	175,900	251.00	2,100	49.00	---	---	---	---	---	---	---	---	---	---
	1983	185,000	183,800	301.00	1,200	178.00	---	---	---	---	---	---	---	---	---	---
	1984	183,000	182,800	316.00	200	70.00	---	---	---	---	---	---	---	---	---	---
	1985	210,000	208,000	330.00	2,000	41.50	---	---	---	---	---	---	---	---	---	---
	1986	172,000	170,000	445.00	2,000	35.00	---	---	---	---	---	---	---	---	---	---
	1987	191,000	190,500	344.00	500	26.00	---	---	---	---	---	---	---	---	---	---
	1988	200,000	199,000	396.00	1,000	57.00	---	---	---	---	---	---	---	---	---	---

TABLE 5 --- CALIFORNIA NONCITRUS FRUITS: UTILIZED PRODUCTION AND AVERAGE GROWER RETURN PER TON, BY UTILIZATION CATEGORY, 1979-88

CROP	CROP YEAR	TOTAL UTILIZED PRODUCTION	FOR FRESH MARKET		FOR PROCESSING											
					TOTAL		CANNED		CRUSHED		FROZEN		DRIED,(Fresh Basis)		DRIED BASIS	
			QUANTITY	GROWER RETURN	QUANTITY	GROWER RETURN	QUANTITY	GROWER RETURN	QUANTITY	GROWER RETURN	QUANTITY	GROWER RETURN	QUANTITY	GROWER RETURN	QUANTITY	GROWER RETURN
		Short Tons	-Tons-	$/Ton	-Tons-	$/Ton	-Tons-	$/Ton	-Tons-	$/Ton	-Tons-	$/Ton	-Tons-	$/Ton	-Tons-	$/Ton
OLIVES	1979	62,000	500	425.00	61,500	399.00	52,300	432.00	1,600	145.00	7,600	227.00	---	---	---	---
	1980	109,000	300	450.00	108,700	359.00	76,800	445.00	3,500	12.00	28,400	170.00	---	---	---	---
	1981	44,900	300	600.00	44,600	686.00	37,900	745.00	2,000	8.00	4,700	497.00	---	---	---	---
	1982	146,500	500	625.00	146,000	507.00	98,000	565.00	2,500	11.00	45,500	410.00	---	---	---	---
Limited and	1983	61,000	400	625.00	60,600	508.00	48,000	572.00	4,100	14.00	8,500	387.00	---	---	---	---
undersized are	1984	90,600	400	500.00	90,200	550.00	76,700	619.00	2,900	14.00	10,600	196.00	---	---	---	---
reported in the	1985	96,000	500	500.00	95,500	559.00	76,100	660.00	5,800	16.00	13,600	227.00	---	---	---	---
"frozen" column.	1986	111,500	500	500.00	111,000	587.00	85,000	709.00	6,000	17.00	20,000	240.00	---	---	---	---
	1987	67,500	500	500.00	67,000	619.00	55,000	714.00	3,000	15.00	9,000	241.00	---	---	---	---
	1988	87,500	500	500.00	87,000	557.00	70,000	643.00	3,000	15.00	14,000	241.00	---	---	---	---
PEACHES,	1979	889,000	138,200	263.00	750,800	154.00	692,300	155.00	---	---	42,000	145.00	16,500	136.00	1,800	1,210.00
ALL f/	1980	929,000	146,100	237.00	782,900	155.00	731,400	158.00	---	---	34,500	112.00	17,000	115.00	2,200	889.00
	1981	770,000	144,500	299.00	625,500	175.00	572,600	180.00	---	---	35,500	126.00	17,400	112.00	2,047	952.00
	1982	679,000	134,000	248.00	545,000	159.00	490,500	163.00	---	---	32,000	138.00	22,500	120.00	2,600	1,044.00
	1983	527,000	151,500	254.00	375,500	156.00	327,500	159.00	---	---	30,000	145.00	18,000	118.00	2,000	1,062.00
	1984	711,500	156,500	220.00	555,000	173.00	501,000	178.00	---	--	40,000	126.00	14,000	100.00	1,550	900.00
	1985	701,750	157,500	270.00	544,250	180.00	483,750	187.00	---	---	44,250	130.00	16,250	104.00	2,050	832.00
	1986	684,250	151,000	354.00	533,250	161.00	460,750	167.00	---	---	56,250	135.00	16,250	96.00	1,800	864.00
	1987	680,500	155,000	333.00	525,500	179.00	449,000	187.00	---	---	59,000	144.00	17,500	101.00	1,950	909.00
	1988	734,000	160,000	396.00	574,000	196.00	496,150	205.00	---	---	57,250	145.00	20,600	117.00	2,500	960.00
PEACHES,	1979	655,000	1,200	200.00	653,800	156.00	653,800	156.00	---	---	---	---	---	---	---	---
CLINGSTONE	1980	691,000	1,100	220.00	689,900	160.00	689,900	160.00	---	---	---	---	---	---	---	---
f/	1981	553,000	1,500	240.00	551,500	182.00	551,500	182.00	---	---	---	---	---	---	---	---
	1982	471,500	1,000	248.00	470,500	164.00	470,500	164.00	---	---	---	---	---	---	---	---
	1983	309,500	---	---	309,500	160.00	309,500	160.00	---	---	---	---	---	---	---	---
	1984	483,000	---	---	483,000	180.00	483,000	180.00	---	---	---	---	---	---	---	---
	1985	458,750	---	---	458,750	190.00	458,750	190.00	---	---	---	---	---	---	---	---
	1986	436,750	---	---	436,750	168.00	436,750	168.00	---	---	---	---	---	---	---	---
	1987	425,000	---	---	425,000	189.00	425,000	189.00	---	---	---	---	---	---	---	---
	1988	472,500	---	---	472,500	207.00	472,500	207.00	---	---	---	---	---	---	---	---
PEACHES,	1979	234,000	137,000	264.00	97,000	138.00	38,500	135.00	---	---	42,000	145.00	16,500	136.00	1,800	1,210.00
FREESTONE	1980	238,000	145,000	237.00	93,000	118.00	41,500	125.00	---	---	34,500	112.00	17,000	115.00	2,200	889.00
f/	1981	217,000	143,000	300.00	74,000	123.00	21,100	127.00	---	---	35,500	126.00	17,400	112.00	2,047	952.00
	1982	207,500	133,000	248.00	74,500	131.00	20,000	134.00	---	---	32,000	138.00	22,500	120.00	2,600	1,044.00
	1983	217,500	151,500	254.00	66,000	135.00	18,000	134.00	---	---	30,000	145.00	18,000	118.00	2,000	1,062.00
	1984	228,500	156,500	220.00	72,000	123.00	18,000	134.00	---	---	40,000	126.00	14,000	100.00	1,550	900.00
	1985	243,000	157,500	270.00	85,500	128.00	25,000	141.00	---	---	44,250	130.00	16,250	104.00	2,050	832.00
	1986	247,500	151,000	354.00	96,500	131.00	24,000	146.00	---	---	56,250	135.00	16,250	96.00	1,800	864.00
	1987	255,500	155,000	333.00	100,500	138.00	24,000	151.00	---	---	59,000	144.00	17,500	101.00	1,950	909.00
	1988	261,500	160,000	396.00	101,500	142.00	23,650	156.00	---	---	57,250	145.00	20,600	117.00	2,500	960.00

TABLE 5 --- CALIFORNIA NONCITRUS FRUITS: UTILIZED PRODUCTION AND AVERAGE GROWER RETURN PER TON, BY UTILIZATION CATEGORY, 1979-88

CROP	CROP YEAR	TOTAL UTILIZED PRODUCTION	FOR FRESH MARKET		FOR PROCESSING											
					TOTAL		CANNED		CRUSHED		FROZEN		DRIED,(Fresh Basis)		DRIED BASIS	
			QUANTITY	GROWER RETURN	QUANTITY	GROWER RETURN	QUANTITY	GROWER RETURN	QUANTITY	GROWER RETURN	QUANTITY	GROWER RETURN	QUANTITY	GROWER RETURN	QUANTITY	GROWER RETURN
		Short Tons	-Tons-	$/Ton	-Tons-	$/Ton	-Tons-	$/Ton	-Tons-	$/Ton	-Tons-	$/Ton	-Tons-	$/Ton	-Tons-	$/Ton
PEARS, ALL g/	1979	364,800	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1980	397,700	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1981	376,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1982	321,500	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1983	267,700	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1984	312,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1985	292,500	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1986	294,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1987	337,000	---	---	---	--	---	---	---	---	---	---	---	---	---	---
	1988	303,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PEARS, BARTLETT h/	1979	355,000	51,000	275.00	304,000	155.00	---	---	---	---	---	---	10,100	141.00	1,530	930.00
	1980	387,000	72,000	188.00	315,000	147.00	---	---	---	---	---	---	8,100	109.00	1,500	589.00
	1981	366,000	70,000	207.00	296,000	135.00	---	---	---	---	---	---	7,200	114.00	1,440	570.00
	1982	314,000	81,000	176.00	233,000	109.00	---	---	---	---	---	---	7,200	97.00	1,200	582.00
	1983	259,500	44,700	170.00	214,800	104.00	---	---	---	---	---	---	6,400	90.00	1,070	540.00
	1984	302,000	66,300	160.00	223,200	147.00	---	---	---	---	---	---	4,600	117.00	780	690.00
	1985	282,000	69,000	250.00	213,000	193.00	---	---	---	---	---	---	8,500	136.00	1,310	884.00
	1986	285,000	70,000	332.00	215,000	150.00	---	---	---	---	---	---	9,000	105.00	1,410	672.00
	1987	325,000	74,500	164.00	250,500	152.00	---	---	---	---	---	---	8,000	106.00	1,130	753.00
	1988	292,000	64,000	317.00	228,000	176.00	---	---	---	---	---	---	8,000	147.00	1,230	956.00
PEARS, OTHER g/	1979	9,800	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1980	10,700	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1981	10,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1982	7,500	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1983	8,200	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1984	10,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1985	10,500	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1986	9,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1987	12,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1988	11,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PLUMS g/	1979	175,000	173,000	280.00	2,000	31.00	---	---	---	---	---	---	---	---	---	---
	1980	160,000	157,400	456.00	2,600	8.00	---	---	---	---	---	---	---	---	---	---
	1981	197,500	194,300	314.00	3,200	8.10	---	---	---	---	---	---	---	---	---	---
	1982	118,000	116,600	627.00	1,400	14.00	---	---	---	---	---	---	---	---	---	---
	1983	158,500	155,700	443.00	2,800	12.00	---	---	---	---	---	---	---	---	---	---
	1984	225,000	221,000	216.00	4,000	15.00	---	---	---	---	---	---	---	---	---	---
	1985	166,500	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1986	152,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1987	245,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1988	216,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---

TABLE 5 --- CALIFORNIA NONCITRUS FRUITS: UTILIZED PRODUCTION AND AVERAGE GROWER RETURN PER TON, BY UTILIZATION CATEGORY, 1979-88

CROP	CROP YEAR	TOTAL UTILIZED PRODUCTION	FOR FRESH MARKET		FOR PROCESSING											
					TOTAL		CANNED		CRUSHED		FROZEN		DRIED, (Fresh Basis)		DRIED BASIS	
			QUANTITY	GROWER RETURN	QUANTITY	GROWER RETURN	QUANTITY	GROWER RETURN	QUANTITY	GROWER RETURN	QUANTITY	GROWER RETURN	QUANTITY	GROWER RETURN	QUANTITY	GROWER RETURN
		Short Tons	-Tons-	$/Ton	-Tons-	$/Ton	-Tons-	$/Ton	-Tons-	$/Ton	-Tons-	$/Ton	-Tons-	$/Ton	-Tons-	$/Ton
POMEGRANATES g/	1979	11,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1980	16,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1981	14,800	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1982	14,400	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1983	18,900	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1984	19,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1985	17,400	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1986	19,400	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1987	16,500	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1988	12,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRUNES, Dried Basis	1979	136,000	---	---	136,000	812.00	---	---	---	---	---	---	427,000	259.00	136,000	812.00
	1980	168,000	---	---	168,000	683.00	---	---	---	---	---	---	585,000	196.00	168,000	683.00
	1981	159,500	---	---	159,500	654.00	---	---	---	---	---	---	503,000	208.00	159,500	654.00
	1982	126,000	---	---	126,000	679.00	---	---	---	---	---	---	403,200	226.00	126,000	679.00
	1983	145,000	---	---	145,000	667.00	---	---	---	---	---	---	464,000	208.00	145,000	667.00
	1984	148,000	---	---	148,000	693.00	---	---	---	---	---	---	444,000	231.00	148,000	693.00
	1985	141,000	---	---	141,000	680.00	---	---	---	---	---	---	430,100	223.00	141,000	680.00
	1986	99,000	---	---	99,000	819.00	---	---	---	---	---	---	291,100	279.00	99,000	819.00
	1987	229,000	---	---	229,000	735.00	---	---	---	---	---	---	682,400	247.00	229,000	735.00
	1988	155,000	---	---	155,000	7/10/89	---	---	---	---	---	---	482,100	7/10/89	155,000	7/10/89

TABLE 6 --- CALIFORNIA CITRUS FRUITS: SALES BY UTILIZATION & AVERAGE GROWER RETURN PER BOX, 1978-88

CROP	CROP YEAR	ALL SALES		FRESH MARKET		PROCESSING	
		QUANTITY	GROWER RETURN a/	QUANTITY	GROWER RETURN a/	QUANTITY	GROWER RETURN a/
		(000) Boxes	$/Box	(000) Boxes	$/Box	(000) Boxes	$/Box
GRAPEFRUIT, ALL	1978-79	6,130	4.97	3,690	7.87	2,440	0.58
	1979-80	7,500	2.96	3,460	5.65	4,040	0.66
	1980-81	8,060	4.58	4,490	7.60	3,570	0.79
	1981-82	6,000	3.20	3,605	5.28	2,395	0.04
	1982-83	7,300	3.33	4,420	5.44	2,880	0.09
	1983-84	7,240	4.23	4,620	6.70	2,620	-0.12
	1984-85	8,800	7.16	6,200	9.70	2,600	1.07
	1985-86	8,100	7.33	5,700	10.13	2,400	0.65
	1986-87	9,300	6.06	5,850	9.15	3,450	0.81
	1987-88	8,900	6.25	6,200	8.49	2,700	1.08
GRAPEFRUIT, DESERT VALLEY	1978-79	3,260	3.64	1,910	5.81	1,350	0.57
	1979-80	4,200	2.33	1,740	4.66	2,460	0.68
	1980-81	4,260	4.34	2,310	7.19	1,950	0.97
	1981-82	3,400	3.02	1,925	5.28	1,475	0.08
	1982-83	4,100	2.82	2,420	4.70	1,680	0.12
	1983-84	3,340	4.01	2,020	6.68	1,320	-0.08
	1984-85	3,800	6.83	2,600	9.48	1,200	1.09
(Net weight per box: 64 pounds)	1985-86	3,600	6.81	2,400	9.86	1,200	0.70
	1986-87	4,300	5.48	2,600	8.48	1,700	0.90
	1987-88	4,200	5.24	2,800	7.28	1,400	1.16
GRAPEFRUIT, OTHER AREAS	1978-79	2,870	6.47	1,780	10.07	1,090	0.60
	1979-80	3,300	3.77	1,720	6.66	1,580	0.62
	1980-81	3,800	4.85	2,180	8.03	1,620	0.57
	1981-82	2,600	3.41	1,680	5.28	920	-0.02
	1982-83	3,200	3.98	2,000	6.34	1,200	0.04
	1983-84	3,900	4.43	2,600	6.72	1,300	-0.16
	1984-85	5,000	7.40	3,600	9.86	1,400	1.06
(Net weight per box: 67 pounds)	1985-86	4,500	7.73	3,300	10.32	1,200	0.60
	1986-87	5,000	6.53	3,250	9.66	1,750	0.73
	1987-88	4,700	7.11	3,400	9.44	1,300	1.00
ORANGES, ALL	1978-79	37,300	6.88	24,800	9.45	12,500	1.80
	1979-80	59,400	3.85	39,480	5.14	19,920	1.30
	1980-81	65,250	4.47	37,630	6.90	27,620	1.17
	1981-82	41,900	8.80	33,400	10.76	8,500	1.08
	1982-83	76,100	4.16	43,250	6.10	32,850	1.61
	1983-84	48,500	8.21	37,550	10.39	10,950	0.75
	1984-85	52,400	9.66	40,400	11.66	12,000	2.92
(All varieties--net weight	1985-86	53,900	6.77	43,600	8.31	10,300	0.25
per box : 75 pounds)	1986-87	57,900	7.50	41,700	10.16	16,200	0.64
	1987-88	58,800	7.80	41,200	10.33	17,600	1.86
ORANGES, NAVEL & MISC.	1978-79	20,800	7.05	14,300	9.76	6,500	1.10
	1979-80	32,600	3.93	21,700	5.40	10,900	1.01
	1980-81	38,750	4.01	24,430	6.30	14,320	0.10
	1981-82	26,500	7.22	21,200	8.88	5,300	0.60
	1982-83	40,200	4.61	27,200	6.24	13,000	1.20
	1983-84	33,700	5.57	25,350	7.28	8,350	0.38
	1984-85	26,200	11.36	23,100	12.54	3,100	2.56
	1985-86	33,000	7.15	26,500	8.90	6,500	0.02
	1986-87	34,500	7.04	26,500	9.20	8,000	-0.12
	1987-88	31,500	7.82	24,900	9.58	6,600	1.20
ORANGES, VALENCIA	1978-79	16,500	6.67	10,500	9.02	6,000	2.56
	1979-80	26,800	3.75	17,780	4.82	9,020	1.65
	1980-81	26,500	5.15	13,200	8.00	13,300	2.32
	1981-82	15,400	11.51	12,200	14.04	3,200	1.88
	1982-83	35,900	3.66	16,050	5.86	19,850	1.88
	1983-84	14,800	14.22	12,200	16.84	2,600	1.92
	1984-85	26,200	7.95	17,300	10.48	8,900	3.04
	1985-86	20,900	6.17	17,100	7.40	3,800	0.64
	1986-87	23,400	8.17	15,200	11.84	8,200	1.38
	1987-88	27,300	7.76	16,300	11.48	11,000	2.26

TABLE 6 --- CALIFORNIA CITRUS FRUITS: SALES BY UTILIZATION & AVERAGE GROWER RETURN PER BOX, 1978-88

CROP	CROP YEAR	ALL SALES		FRESH MARKET		PROCESSING	
		QUANTITY	GROWER RETURN a/	QUANTITY	GROWER RETURN a/	QUANTITY	GROWER RETURN a/
		(000) Boxes	$/Box	(000) Boxes	$/Box	(000) Boxes	$/Box
LEMONS	1978-79	14,100	7.98	9,170	11.74	4,930	0.98
	1979-80	17,700	8.12	9,120	12.00	8,580	3.99
	1980-81	24,300	5.04	9,150	9.12	15,150	2.57
	1981-82	18,500	4.58	7,970	10.58	10,530	0.04
	1982-83	20,300	4.38	9,250	9.36	11,050	0.22
	1983-84	17,250	6.15	9,240	10.90	8,010	0.68
	1984-85	19,800	7.10	9,350	13.24	10,450	1.60
(Net weight per box: 76 pounds)	1985-86	15,100	11.29	9,500	17.02	5,600	1.56
	1986-87	21,500	7.11	10,000	13.38	11,500	1.66
	1987-88	17,000	10.08	10,100	16.40	6,900	0.84
TANGERINES	1978-79	1,450	10.26	950	15.10	500	1.05
	1979-80	1,650	4.67	785	8.30	865	1.38
(Including Mandarines	1980-81	1,860	4.08	760	9.10	1,100	0.62
and Mandarin Hybrids,	1981-82	1,730	7.93	1,120	11.60	610	1.20
Tangelos and Tangors)	1982-83	2,150	6.19	1,140	10.80	1,010	0.99
	1983-84	1,850	7.34	920	13.50	930	1.25
	1984-85	b/ 1,680	12.62	1,145	17.28	535	2.66
(Net weight per box: 75 pounds)	1985-86	b/ 1,800	12.19	1,270	17.10	530	0.42
	1986-87	b/ 2,230	11.52	1,632	15.24	598	1.38
	1987-88	2,090	15.45	1,524	20.68	566	1.38

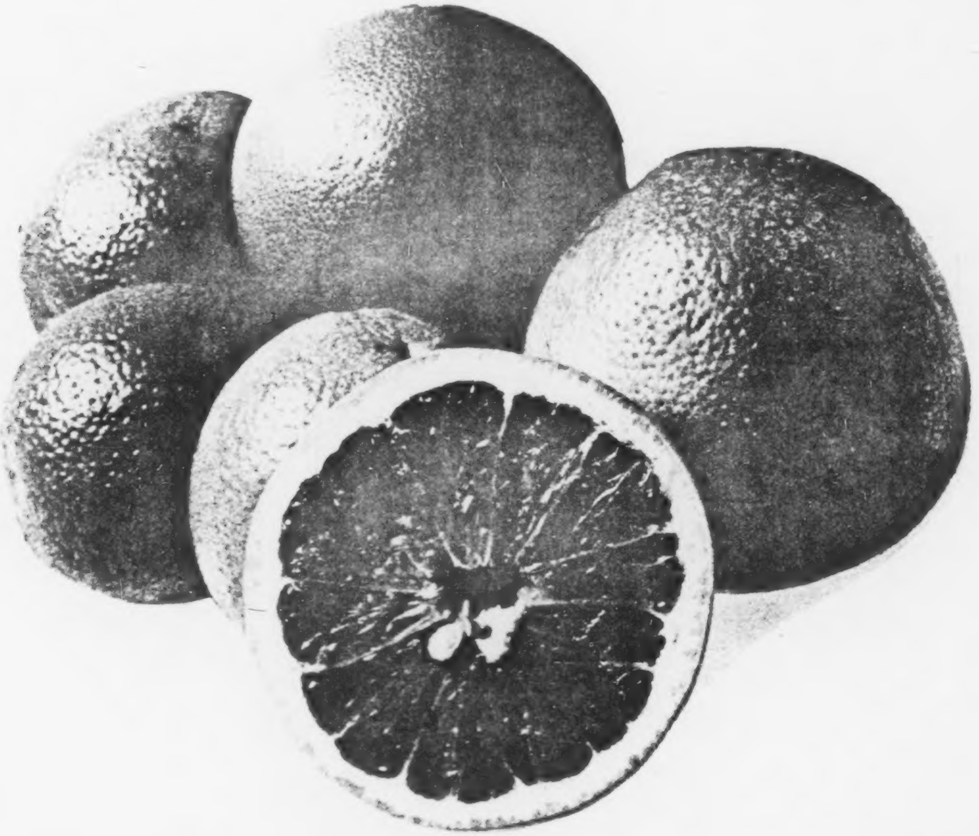


TABLE 7 --- CALIFORNIA CITRUS FRUITS: Grower Returns, Monthly and Season Average Prices (dollars per box), 1978-88

GRAPEFRUIT, DESERT	CROP YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	SEASON AVG.PRICE
Fresh Sales	1978-79	6.24	6.24	4.02	6.66	3.36	3.76	5.76	6.56	9.76	---	---	---	5.81
	1979-80	4.64	4.64	5.42	5.02	5.80	5.32	4.54	4.32	5.44	2.32	---	---	4.66
	1980-81	6.16	7.52	8.12	5.50	5.49	6.06	7.36	7.66	8.96	6.36	---	---	7.19
	1981-82	6.11	6.04	8.46	6.76	5.74	4.74	4.64	4.88	5.28	4.18	---	---	5.28
	1982-83	4.32	4.32	3.86	3.58	3.54	4.04	4.02	5.14	5.64	5.04	---	---	4.70
	1983-84	6.18	6.18	6.18	7.18	6.98	5.45	6.68	7.58	6.18	5.98	---	---	6.68
	1984-85	---	10.28	9.88	10.28	9.48	7.96	8.26	9.66	8.56	---	---	---	9.48
	1985-86	---	12.66	11.56	11.36	10.16	9.46	7.28	9.28	8.68	---	---	---	9.86
	1986-87	---	8.48	8.28	7.68	8.08	7.08	7.38	8.58	9.78	9.78	---	---	8.48
	1987-88	---	10.78	8.08	7.28	7.08	6.98	6.18	7.08	6.98	6.68	2.28	---	7.28
Processing Sales	1978-79	0.58	0.58	0.58	0.58	0.58	0.56	0.56	0.56	0.56	---	---	---	0.57
	1979-80	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	---	---	0.68
	1980-81	0.62	0.62	0.62	1.04	1.04	1.04	1.04	1.04	0.86	0.86	---	---	0.97
	1981-82	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	---	---	0.08
	1982-83	0.09	0.09	0.09	0.12	0.12	0.12	0.12	0.12	0.12	0.12	---	---	0.12
	1983-84	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	---	---	-0.08
	1984-85	---	1.06	1.06	1.06	1.06	1.10	1.10	1.10	1.10	---	---	---	1.09
	1985-86	---	0.66	0.66	0.66	0.66	0.66	0.66	0.72	0.72	0.72	---	---	0.70
	1986-87	---	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.88	0.88	---	---	0.90
	1987-88	---	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	---	1.16
All Sales	1978-79	4.46	4.39	2.36	3.88	1.92	2.34	3.80	4.17	6.69	---	---	---	3.64
	1979-80	2.87	2.46	2.39	2.81	2.73	2.48	2.29	2.31	2.62	1.23	---	---	2.33
	1980-81	4.21	4.82	5.13	3.74	3.87	4.20	4.38	4.49	4.43	3.61	---	---	4.34
	1981-82	4.37	4.98	6.00	4.63	3.56	2.53	2.45	2.69	2.79	2.59	---	---	3.02
	1982-83	3.09	3.32	2.81	2.56	2.34	2.64	2.49	2.93	3.19	2.32	---	---	2.82
	1983-84	4.75	4.80	5.03	5.52	5.37	4.03	3.94	4.67	2.75	2.06	---	---	4.01
	1984-85	---	8.94	9.18	8.96	6.82	7.65	4.17	5.98	5.24	---	---	---	6.83
	1985-86	---	11.09	9.54	9.52	7.45	6.79	5.23	5.83	5.24	0.72	---	---	6.81
	1986-87	---	7.70	6.90	7.16	6.03	5.38	4.96	5.42	5.04	2.36	---	---	5.48
	1987-88	---	9.71	7.22	6.41	5.79	5.48	4.89	4.98	4.43	2.82	1.91	---	5.24

GRAPEFRUIT, OTHER AREAS	CROP YEAR	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	SEASON AVG.PRICE
Fresh Sales	1978-79	9.26	9.26	8.56	10.46	11.96	8.36	9.76	10.06	6.62	6.62	6.67	6.67	10.07
	1979-80	6.67	6.67	6.67	7.12	6.32	6.52	6.52	---	5.22	5.20	5.91	5.34	6.66
	1980-81	5.44	6.45	6.00	9.80	8.70	7.50	7.90	5.34	---	---	---	---	8.03
	1981-82	5.74	5.74	5.14	6.94	7.14	4.44	4.14	3.74	---	---	---	---	5.28
	1982-83	---	---	---	7.04	6.64	6.04	6.14	6.14	---	---	---	---	6.34
	1983-84	---	---	4.81	7.32	6.62	6.12	6.92	7.22	---	---	---	---	6.72
	1984-85	6.46	7.66	9.16	10.06	10.36	10.06	10.36	9.66	---	---	---	---	9.86
	1985-86	11.96	6.76	9.30	10.80	10.20	10.10	10.90	---	---	---	---	---	10.32
	1986-87	11.90	7.20	9.70	10.94	10.34	8.14	9.34	9.04	---	---	23.74	13.54	9.66
	1987-88	4.94	5.24	9.54	8.94	9.74	8.84	---	---	---	---	---	---	9.44
Processing Sales	1978-79	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.62	0.62	0.62	0.62	0.60
	1979-80	0.62	0.62	0.62	0.62	0.62	0.62	0.62	---	0.62	0.62	0.62	0.62	0.62
	1980-81	0.62	0.62	0.62	0.56	0.56	0.56	0.56	---	---	---	---	---	0.57
	1981-82	---	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	---	---	---	---	-0.02
	1982-83	---	---	0.04	0.04	0.04	0.04	0.04	0.04	---	---	---	---	0.04
	1983-84	---	---	-0.16	-0.16	-0.16	-0.16	-0.16	-0.16	---	---	---	---	-0.16
	1984-85	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	---	---	---	---	1.06
	1985-86	---	0.62	0.60	0.60	0.60	0.60	0.60	---	---	---	---	---	0.60
	1986-87	0.80	0.80	0.80	0.72	0.72	0.72	0.72	0.72	---	---	---	---	0.73
	1987-88	1.00	1.00	1.00	1.00	1.00	1.00	---	---	---	---	---	---	1.00
All Sales	1978-79	5.94	5.95	4.33	7.25	7.92	5.52	6.47	6.43	3.86	3.89	3.88	3.88	6.47
	1979-80	3.90	3.89	3.99	4.13	3.44	3.41	3.48	---	2.59	3.37	4.28	3.32	3.77
	1980-81	2.92	3.03	2.27	5.21	5.64	4.40	7.03	5.34	---	---	---	---	4.85
	1981-82	5.74	2.86	2.24	3.12	4.96	2.72	2.78	2.85	---	---	---	---	3.20
	1982-83	---	---	0.04	3.65	4.43	4.10	3.92	3.77	---	---	---	---	3.98
	1983-84	---	---	1.50	4.97	4.21	3.85	4.80	5.27	---	---	---	---	4.43
	1984-85	5.79	5.30	6.85	6.91	7.78	7.36	9.20	5.93	---	---	---	---	7.40
	1985-86	11.96	4.23	4.65	9.01	7.46	7.46	9.37	---	---	---	---	---	7.73
	1986-87	8.20	5.78	6.30	7.11	7.16	5.96	5.85	6.70	---	---	23.74	13.54	6.53
	1987-88	4.28	3.12	5.88	5.97	6.51	5.48	---	---	---	---	---	---	7.11

TABLE 7 --- CALIFORNIA CITRUS FRUITS: Grower Returns, Monthly and Season Average Prices (dollars per box), 1978-88

ORANGES, NAVEL & MISC.	CROP YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	SEASON AVG.PRICE
Fresh Sales	1978-79	---	9.96	9.96	9.96	10.10	9.50	9.30	9.10	9.10	---	---	---	9.76
	1979-80	6.40	7.00	6.10	5.12	5.11	5.90	4.96	4.38	3.22	---	---	---	5.40
	1980-81	10.70	9.50	7.50	6.80	6.70	6.00	5.34	4.56	5.12	5.22	3.52	---	6.30
	1981-82	10.28	7.18	8.38	9.08	9.38	9.08	9.68	9.78	---	---	---	---	8.88
	1982-83	22.64	11.54	8.04	6.04	5.64	5.74	5.24	4.42	4.14	2.72	---	---	6.24
	1983-84	---	9.48	7.98	7.98	6.88	6.28	6.58	7.58	---	---	---	---	7.28
	1984-85	17.24	13.74	13.14	13.34	12.14	10.74	11.94	16.14	---	---	---	---	12.54
	1985-86	14.10	10.90	10.60	9.50	8.10	8.30	7.60	7.40	6.50	---	---	---	8.90
	1986-87	12.00	11.20	9.50	9.30	8.70	8.40	7.90	9.60	10.40	---	---	---	9.20
	1987-88	25.68	13.88	8.88	9.58	8.38	8.08	8.48	12.48	7.08	---	---	---	9.58
Processing Sales	1978-79	---	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	---	---	---	1.10
	1979-80	---	1.10	1.08	1.00	1.00	1.00	1.00	1.00	1.00	1.00	---	---	1.01
	1980-81	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	---	0.10
	1981-82	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	---	---	---	---	0.60
	1982-83	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	---	1.20
	1983-84	---	0.38	0.38	0.38	0.38	0.38	0.38	0.38	---	---	---	---	0.38
	1984-85	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	---	---	---	---	2.56
	1985-86	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	---	---	---	0.02
	1986-87	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	-0.12	---	---	---	-0.12
	1987-88	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	---	---	---	1.20
All Sales	1978-79	---	9.38	8.45	7.09	7.07	6.53	5.97	6.36	6.43	---	---	---	7.05
	1979-80	6.40	6.31	5.40	4.30	3.91	4.13	3.23	2.71	1.68	1.00	---	---	3.93
	1980-81	8.05	7.09	5.87	5.12	4.70	3.89	2.89	2.53	2.56	1.73	0.78	---	4.01
	1981-82	8.27	6.01	7.05	7.80	7.49	7.08	7.58	7.81	---	---	---	---	7.22
	1982-83	21.75	10.08	6.84	4.95	4.30	4.24	3.71	3.07	2.58	1.41	1.20	---	4.61
	1983-84	---	8.15	6.95	6.58	5.21	4.46	4.49	5.23	---	---	---	---	5.57
	1984-85	16.06	12.86	12.31	12.10	10.38	9.70	11.04	14.39	---	---	---	---	11.36
	1985-86	9.41	9.71	9.52	7.99	6.73	6.54	5.25	5.34	4.07	---	---	---	7.15
	1986-87	9.76	9.59	8.09	7.42	6.40	6.22	5.58	6.58	5.89	---	---	---	7.04
	1987-88	23.58	12.99	7.92	7.92	6.77	6.34	6.51	8.90	5.12	---	---	---	7.82

ORANGES, VALENCIA	CROP YEAR	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	SEASON AVG.PRICE
Fresh Sales	1978-79	8.10	8.10	6.90	9.50	11.60	9.10	8.00	8.00	8.40	6.70	6.70	---	9.02
	1979-80	6.80	8.00	4.77	4.67	4.81	4.82	4.82	4.80	4.80	4.80	4.80	---	4.82
	1980-81	5.10	7.40	7.40	8.10	8.70	9.30	7.80	7.60	6.40	5.30	4.34	---	8.00
	1981-82	8.44	9.14	10.40	12.74	13.04	14.24	15.84	23.84	24.14	---	---	---	14.04
	1982-83	5.96	6.56	7.46	6.56	6.36	6.86	6.36	5.26	4.36	4.76	4.86	3.86	5.86
	1983-84	9.24	10.54	11.54	15.34	17.24	17.34	18.14	19.24	19.64	19.14	---	---	16.84
	1984-85	15.38	13.28	11.28	11.88	11.38	10.78	10.28	9.88	8.38	7.58	---	---	10.48
	1985-86	6.60	5.60	6.40	7.90	6.90	6.90	7.20	7.90	8.30	8.00	---	---	7.40
	1986-87	---	9.84	10.84	11.34	11.74	12.14	10.14	12.74	13.94	12.14	---	---	11.84
	1987-88	---	12.28	14.18	14.28	13.68	11.28	9.78	8.48	11.18	7.28	6.48	---	11.48
Processing Sales	1978-79	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	---	2.56
	1979-80	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	---	1.65
	1980-81	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	2.32	---	2.32
	1981-82	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	---	---	---	1.88
	1982-83	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88
	1983-84	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	---	---	1.92
	1984-85	3.04	3.04	3.04	3.04	3.04	3.04	3.04	3.04	3.04	3.04	---	---	3.04
	1985-86	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	---	---	0.64
	1986-87	---	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	---	---	1.38
	1987-88	---	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	---	2.26
All Sales	1978-79	5.33	5.33	5.53	7.71	9.05	6.86	5.86	5.80	5.86	4.49	4.63	---	6.67
	1979-80	5.51	6.05	3.88	3.74	3.74	3.69	3.64	3.79	3.81	3.39	3.22	---	3.75
	1980-81	4.40	5.61	5.20	5.84	6.12	6.00	4.78	4.85	4.04	3.37	2.72	---	5.15
	1981-82	6.05	6.59	7.94	10.51	10.58	11.56	13.52	21.21	21.99	---	---	---	11.51
	1982-83	4.60	4.22	4.89	4.50	4.47	4.32	3.99	3.34	2.74	2.75	2.42	3.20	3.66
	1983-84	7.61	7.39	9.03	13.39	14.51	14.67	15.00	16.41	17.32	16.89	---	---	14.22
	1984-85	12.01	10.58	9.36	9.78	8.64	7.91	7.21	7.50	6.46	5.64	---	---	7.95
	1985-86	5.41	5.07	5.69	6.81	5.93	5.40	5.71	6.39	7.29	7.70	---	---	6.17
	1986-87	---	6.91	6.97	8.17	7.94	7.75	7.11	9.13	10.26	7.84	---	---	8.17
	1987-88	---	10.05	10.94	11.18	9.86	8.18	6.66	5.92	6.59	4.00	3.76	---	7.76

TABLE 7 --- CALIFORNIA CITRUS FRUITS: Grower Returns, Monthly and Season Average Prices (dollars per box), 1978-88

LEMONS, ALL	CROP YEAR	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	SEASON AVG.PRICE
Fresh Sales	1978-79	16.54	12.04	11.94	6.96	6.82	7.52	6.98	8.08	8.98	11.38	13.38	23.08	11.74
	1979-80	30.40	19.40	16.60	11.30	9.70	5.90	7.20	7.50	8.10	8.10	9.10	16.80	12.00
	1980-81	17.60	13.20	13.20	9.42	6.22	5.22	4.62	5.22	6.32	6.62	8.52	15.52	9.12
	1981-82	16.48	17.48	7.98	4.98	6.28	5.98	4.78	6.28	9.18	12.38	11.18	17.68	10.58
	1982-83	15.76	15.96	10.86	7.96	6.96	5.16	5.16	5.86	6.16	6.86	10.46	17.06	9.36
	1983-84	14.90	15.00	13.10	6.30	5.20	4.40	4.50	5.50	7.20	12.50	20.10	18.70	10.90
	1984-85	19.24	20.04	12.54	8.14	8.84	9.04	8.14	8.54	9.34	12.64	17.14	23.44	13.24
	1985-86	36.82	38.82	30.02	19.52	15.82	14.82	11.42	10.52	11.42	11.02	15.72	17.02	17.02
	1986-87	10.88	6.58	10.28	11.48	11.08	11.08	12.18	13.78	13.38	13.28	16.38	19.98	13.38
	1987-88	22.50	21.40	16.10	12.70	10.70	9.60	10.90	13.80	14.50	16.00	20.00	22.20	16.40
Processing Sales	1978-79	0.85	0.85	0.85	1.00	1.00	1.00	1.00	1.00	1.00	1.16	1.00	1.00	0.98
	1979-80	1.30	1.30	3.08	3.05	3.05	3.20	3.20	4.34	4.34	4.34	4.34	4.34	3.99
	1980-81	4.44	4.44	2.38	2.54	2.54	2.54	2.54	2.54	2.54	2.54	1.98	1.98	2.57
	1981-82	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
	1982-83	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
	1983-84	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68
	1984-85	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
	1985-86	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56
	1986-87	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66
	1987-88	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
All Sales	1978-79	14.00	8.49	6.66	4.25	3.76	4.06	4.07	5.32	6.15	8.15	11.08	20.10	7.98
	1979-80	26.81	14.95	12.72	8.42	6.90	4.84	5.07	5.49	5.61	6.07	7.03	12.34	8.12
	1980-81	11.89	8.47	6.63	5.20	3.79	3.43	3.12	3.41	3.68	3.91	4.78	9.79	5.04
	1981-82	10.24	9.88	3.11	1.54	1.88	2.10	1.38	2.84	4.15	5.51	5.89	10.41	4.58
	1982-83	9.66	9.39	4.79	3.73	3.34	2.30	2.24	2.74	2.24	2.61	5.83	10.43	4.38
	1983-84	9.40	9.04	7.90	3.69	2.87	2.21	2.08	2.85	4.10	8.07	14.43	14.04	6.15
	1984-85	14.77	12.93	6.97	4.53	5.45	4.75	4.09	4.39	4.40	6.82	10.13	14.75	7.10
	1985-86	24.83	25.00	21.14	13.83	10.90	9.89	7.75	7.10	7.25	7.30	10.62	11.66	11.29
	1986-87	6.90	4.00	5.88	5.41	4.80	5.20	5.82	6.22	6.28	7.85	11.42	13.60	7.11
	1987-88	15.19	11.87	10.67	6.91	5.66	4.55	5.19	8.85	9.51	10.97	15.03	16.36	10.08

TANGERINES, ALL	CROP YEAR	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	SEASON AVG.PRICE
Fresh Sales	1978-79	19.10	12.50	14.80	16.00	15.70	13.00	---	---	---	---	---	---	15.10
	1979-80	16.80	11.50	7.00	4.50	5.70	5.20	4.90	---	---	---	---	---	8.30
	1980-81	12.60	11.90	10.40	9.40	6.50	7.10	7.70	---	---	---	---	---	9.10
	1981-82	15.50	14.40	11.30	8.80	9.70	9.80	---	---	---	---	---	---	11.60
	1982-83	12.20	12.20	9.50	10.80	10.40	10.40	11.00	11.10	---	---	---	---	10.80
	1983-84	17.80	17.80	15.90	14.50	10.70	10.20	10.60	7.70	7.70	---	---	---	13.50
	1984-85	23.78	22.18	20.18	19.48	13.28	11.98	15.48	9.88	9.88	---	---	---	17.28
	1985-86	27.80	23.80	17.70	19.70	11.90	12.80	14.70	4.80	---	---	---	---	17.10
	1986-87	26.94	17.34	14.34	15.84	13.44	11.84	14.64	---	---	---	---	---	15.24
	1987-88	41.78	27.88	14.68	20.68	20.78	19.78	11.58	11.58	11.58	---	---	---	20.68
Processing Sales	1978-79	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	---	---	---	1.05
	1979-80	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	---	---	---	---	1.38
	1980-81	0.62	0.62	0.62	0.62	0.62	0.62	0.62	---	---	---	---	---	0.62
	1981-82	1.20	1.20	1.20	1.20	1.20	1.20	---	---	---	---	---	---	1.20
	1982-83	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	---	---	---	---	0.99
	1983-84	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	---	---	---	1.25
	1984-85	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66	---	---	---	2.66
	1985-86	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	---	---	---	---	0.42
	1986-87	1.38	1.38	1.38	1.38	1.38	1.38	1.38	---	---	---	---	---	1.38
	1987-88	---	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	---	---	---	1.38
All Sales	1978-79	15.37	10.59	10.05	10.17	9.63	7.74	1.05	1.05	1.05	---	---	---	10.26
	1979-80	13.06	7.45	4.31	2.87	2.80	2.26	1.97	1.38	---	---	---	---	4.67
	1980-81	5.52	5.25	4.58	4.21	3.01	3.27	3.57	---	---	---	---	---	4.08
	1981-82	10.40	9.68	7.78	6.13	6.69	6.93	---	---	---	---	---	---	7.93
	1982-83	6.88	6.88	5.42	6.19	6.03	5.89	6.27	7.73	---	---	---	---	6.19
	1983-84	11.18	10.86	7.85	8.10	5.33	5.85	6.86	5.01	4.48	---	---	---	7.34
	1984-85	18.50	17.69	15.95	15.43	8.98	8.05	10.63	6.99	7.10	---	---	---	12.62
	1985-86	23.01	15.22	14.55	13.80	8.16	8.64	8.79	3.34	---	---	---	---	12.19
	1986-87	21.17	13.22	13.49	12.34	8.75	7.78	11.04	---	---	---	---	---	11.52
	1987-88	41.78	25.82	14.45	17.45	12.50	8.60	4.50	3.93	3.47	---	---	---	15.45

TABLE 8 --- CALIFORNIA RAISINS: PRODUCTION and AVERAGE GROWER RETURNS, BY VARIETY, 1979-88

RAISINS a/	CROP YEAR	ALL VARIETIES	NATURAL DRIED				DEHYDRATED ALL TYPES
			THOMPSON SEEDLESS	MUSCATS	SULTANAS	ZANTE CURRANT	
		-- Tons --	Tons				-- Tons --
PRODUCTION	1979	302,300	263,300	1,600	500	3,400	33,500
	1980	309,000	251,600	1,600	500	3,300	52,000
	1981	256,000	230,070	810	420	3,700	21,000
	1982	292,000	250,910	370	450	3,270	37,000
	1983	396,000	365,300	950	500	3,250	26,000
	1984	335,000	308,050	550	400	3,000	23,000
	1985	356,000	318,400	800	500	3,600	32,700
	1986	276,000	246,750	600	350	3,300	25,000
	1987	356,000	325,900	400	300	3,000	26,400
	1988	337,000	01/90	01/90	01/90	01/90	01/90
		Dollars/Ton	Dollars/Ton				Dollars/Ton
AVERAGE GROWER RETURNS	1979	1,151.00	1,153.00	1,150.00	1,049.00	1,100.00	1,142.00
	1980	1,198.00	1,200.00	800.00	1,007.00	1,160.00	1,200.00
	1981	1,314.00	1,320.00	950.00	1,034.00	1,240.00	1,287.00
	1982	1,153.00	1,346.00	1,000.00	1,165.00	1,285.00	1,208.00
	1983	590.00	581.00	900.00	700.00	1,173.00	953.00
	1984	631.00	623.00	775.00	520.00	522.00	732.00
	1985	612.00	599.00	750.00	550.00	500.00	750.00
	1986	757.00	744.00	495.00	650.00	770.00	900.00
	1987	827.00	820.00	600.00	640.00	910.00	910.00
	1988	845.00	01/90	01/90	01/90	01/90	01/90

a/ Excludes raisins produced from table type grapes.

TABLE 9 --- CALIFORNIA OLIVES: PROCESSED and AVERAGE GROWER RETURNS, BY VARIETY, 1979-88

OLIVES	CROP YEAR	MANZANILLO & MISSION		SEVILLANO		ASCOLANO		OTHER VARIETIES		TOTAL PROCESSING	
		-- Tons --		-- Tons --		-- Tons --		-- Tons --		-- Tons --	
QUANTITY PROCESSED	1979	40,500		18,700		1,600		700		61,500	
	1980	75,900		27,400		5,100		300		108,700	
	1981	27,400		14,000		2,500		700		44,600	
	1982	114,300		23,400		7,800		500		146,000	
	1983	41,000		14,500		4,500		600		60,600	
	1984	62,200		22,700		4,800		500		90,200	
	1985	61,100		27,300		6,000		1,100		95,500	
	1986	85,100		18,100		7,400		400		111,000	
	1987	48,500		14,200		3,500		800		67,000	
	1988	62,700		16,500		7,200		600		87,000	
		Grower Return $/Ton	Price $/Ton	Grower Return $/Ton	Price $/Ton	Grower Return $/Ton	Price $/Ton	Grower Return $/Ton	Price $/Ton	Grower Return $/Ton	Price $/Ton
AVERAGE GROWER RETURNS and PRICE PER TON	1979									399	408
	1980									359	368
	1981									686	696
	1982									507	517
	1983	a/	a/	a/	a/	a/	a/	a/	a/	508	518
	1984	565	572	496	503	623	630	445	452	550	557
	1985	576	583	504	511	646	653	503	510	559	566
	1986	587	594	558	565	664	671	522	529	587	594
	1987	642	649	549	556	628	635	462	469	619	626
	1988	596	603	480	487	400	407	480	487	557	564

a/ Prices are not available prior to 1984.

TABLE 10 --- CALIFORNIA NONCITRUS FRUITS: UNUTILIZED PRODUCTION, 1979-88

CROP	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
	--- UNHARVESTED TONS ---									
APPLES	---	---	10,000	---	---	10,000	25,000	---	---	---
APRICOTS	---	---	---	---	---	---	---	---	8,000	8,000
GRAPES	---	---	---	280,000	---	---	---	450,000	---	---
PEARS, BARTLETTS	---	---	---	---	---	12,500	---	---	---	---
PEACHES, CLINGSTONE	---	---	---	25,500	---	---	---	---	---	---
	--- HARVESTED NOT SOLD TONS ---									
GRAPES	---	---	---	410,000	144,000	14,000	---	---	---	---
KIWIFRUIT	---	1,100	1,400	4,000	2,000	1,400	1,500	900	2,400	1,900
PEACHES, CLINGSTONE	45,000	56,500	48,000	54,000	32,000	38,000	33,750	29,750	35,000	35,000
POMEGRANATES	2,000	1,000	1,700	1,600	1,100	1,000	2,000	2,600	2,000	3,000

FOOTNOTES

TABLE 1

a/ Price and value estimates for citrus fruit are based on equivalent packinghouse door returns. Noncitrus fruits and nuts are based on equivalent returns at the processing plant door for "processing" utilization and returns at first delivery point for "fresh market" utilization.

b/ Includes apples, apricots, cherries, kiwifruit (beginning in 1980), nectarines, peaches, pears, plums, pomegranates, and prunes.

c/ Includes raisin, table, and wine varieties.

d/ Includes almonds, pistachios, walnuts, and pecans beginning in 1987. Includes almonds on a meat basis with pistachios and walnuts on an in-shell basis.

e/ Includes avocados, dates, figs, and olives.

f/ Includes grapefruit, lemons, oranges, tangerines, tangelos, and tangors.

g/ Beginning in 1987, the total includes miscellaneous crops. These crops are almond hulls, black walnuts, jojobas, limes, and persimmons. Acres exclude almond hulls.

h/ Value for figs, pomegranates, prunes, and walnuts was estimated.

TABLE 2

a/ Equivalent return at first delivery point.

b/ Return at processing plant door or packinghouse door.

c/ In 1985, 30,000 acres of raisin type grapes were enrolled in the California Raisin Industry Diversion (RID) program; in 1986, 50,000 acres were enrolled in RID; in 1987, 15,000 acres were enrolled in RID; in 1988, 25,000 acres were enrolled in RID. These acres were deducted from bearing acres before calculating yield.

d/ Raisin type production is the fresh equivalent of dried and not dried.

e/ Kiwifruit data not available prior to 1980.

TABLE 3

a/ Season average prices for all grapefruit are derived by weighting the season average prices for each area by their box weights.

b/ Nonbearing acres by area is not available prior to 1981-82.

c/ Beginning 1984-85, value of production is based on packinghouse door (PHD) instead of freight on board (FOB).

TABLE 4

a/ Price and value are based on the edible portion of the crop only. Included in production are inedible quantities of no value as follows: 1982—16.0 million pounds, 1983—21.0 million pounds, 1984--13.5 million pounds, 1985--14.3 million pounds, 1986—9.8 million pounds, 1987—12.0 million pounds, 1988--18.5 million pounds.

b/ Pecan production data begins with the 1987 crop.

c/ Pistachio data for shelling stock not available prior to 1980.

FOOTNOTES - Continued

TABLE 5

a/ Processed fruit included in fresh market total to avoid disclosure of individual operations.
b/ Total processed includes canned, crushed, frozen, and brined.
c/ For 1979-85, fresh prices include processing but not dried. For 1986-88, prices for processing and fresh were not published to avoid disclosure of individual operations.
d/ Includes substandard raisins diverted to other uses.
e/ Kiwifruit production data begins with the 1980 crop.
f/ Small amounts of pickled and crushed included in canned.
g/ Processed and fresh fruit not published to avoid disclosure of individual operations but included in total utilized.
h/ Processed mostly canned, but includes small quantities dried and other uses not published separately to avoid disclosure of individual operations.

TABLE 6

a/ Equivalent packinghouse door returns.
b/ Price per box revised due to changes in cost from FOB to PHD.

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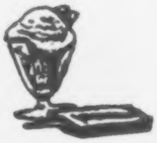
CALIFORNIA DAIRY INDUSTRY STATISTICS

1988



Cottage Cheese

Butter Milk

MANUFACTURED DAIRY PRODUCTS,
MILK PRODUCTION,
UTILIZATION AND PRICES

STATE OF CALIFORNIA
George Deukmejian, Governor

DEPARTMENT OF FOOD AND AGRICULTURE
SACRAMENTO
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Cooperating with
UNITED STATES DEPARTMENT OF AGRICULTURE
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FOREWORD

This is the forty-fifth annual report on Dairy Industry statistics issued as a cooperative effort of the Agricultural Statistics Service and the Milk Stabilization Branches of the California Department of Food and Agriculture. It contains, for the year 1988, a summary of statistical data which was originally published monthly in the "Dairy Information Bulletin". Comparative figures for earlier years, and selected special reports relating to the Dairy Industry are also presented. All changes from previously published data represent either corrections of errors or revisions based on receipt of more complete information.

Most of the statistical data contained in this bulletin is based on reports filed by individuals and firms engaged in the production, manufacture, and distribution of milk and dairy products in California. Although it is not possible to list all of these reporters individually, their cooperation is acknowledged with appreciation.

Data pertaining to the United States and to states other than California were secured from selected reports of the United States Department of Agriculture. Estimates of the population of California were obtained from various reports of the California Department of Finance.

MILK COWS ON FARMS, AVERAGE PRODUCTION PER MILK COW, TOTAL PRODUCTION ON FARMS, AND CASH RECEIPTS FROM MARKETINGS

On January 1, 1989 there were an estimated 1,025 thousand milk cows and heifers that had calved on dairy farms in California. This was 20 thousand more than were estimated for January 1, 1988. The estimated number of cows milked during the year 1988 was 1,015 thousand. As a comparison, an average of 998 thousand head were milked during the year 1987.

The average production of milk per cow in California during the year 1988 was 18,403 pounds. This was 437 pounds more than 1987. Total milk production during 1988 was 18,679 million pounds, 4.2 percent more than 1987 production.

Cash receipts from farm marketings of milk and cream in California during 1988 totaled approximately 2,081 million dollars. The comparable figure for 1987 was 2,083 million dollars. The combination of an increase in the annual average number of cows milked and an increase in average production per cow resulted in record milk production in California during 1988. However, the production increase was not enough to offset the effect of generally lower producer prices in 1988 thus resulting in a decrease in total cash receipts.

As of January 1, 1989, there was an estimated total of 10,217 thousand milk cows and heifers that had calved on farms throughout the United States. This was 81 thousand head fewer or 0.8 percent less than the number estimated for January 1, 1988. The average number of cows milked during the year 1988 was 10,239 thousand head. This was 90 thousand head fewer than the average for the year 1987.

TABLE 1. ESTIMATED NUMBER OF MILK COWS ON FARMS, AVERAGE PRODUCTION PER MILK COW, TOTAL PRODUCTION ON FARMS, AND CASH RECEIPTS FROM FARM MARKETINGS OF DAIRY PRODUCTS, CALIFORNIA, 1970-1988

	Milk Cows and Heifers that have calved, on farms		Average Production per milk cow		Total Production on farms		Cash Receipts from farm marketings of dairy products 2/
Year	Jan. 1 Total 1/	Annual Average	Milk	Milk Fat	Milk	Milk Fat	
	(thousands)		(pounds)		(million pounds)		(thousand dollars)
1970	750	755	12,526	450	9,457	340	534,049
1971	758	763	12,726	458	9,710	350	560,925
1972	766	778	13,368	479	10,400	372	608,082
1973	789	792	13,045	470	10,332	372	692,976
1974	810	797	13,295	479	10,596	381	894,347
1975	800	800	13,566	492	10,853	394	997,202
1976	810	811	14,282	514	11,583	417	1,089,142
1977	809	827	14,472	517	11,968	427	1,182,467
1978	846	846	14,018	506	11,859	428	1,227,584
1979	860	871	14,424	512	12,563	446	1,453,330
1980	878	896	15,153	547	13,577	490	1,770,324
1981	910	923	15,437	554	14,248	512	1,943,229
1982	941	940	15,455	561	14,528	527	1,941,197
1983	940	951	15,503	557	14,743	529	1,944,762
1984	962	967	15,821	563	15,299	545	1,988,008
1985	974	1,004	16,701	610	16,768	612	2,078,402
1986	1,034	1,013	17,019	618	17,240	626	2,058,008
1987	990	998	17,966	652	17,930	651	2,082,883
1988	1,005	1,015	18,403	674	18,679	684	2,080,739
1989	1,025						

1/ Prior to January 1, 1970, milk cows and heifers, two years old or older.

2/ All milk and cream.

The average production of milk per cow in the United States during 1988 was 14,213 pounds. This was 411 pounds more than the 1987 production per cow. Total milk production during 1988 was 145,527 million pounds, 2,970 million pounds more than the production in 1987.

Cash receipts from milk and cream marketings in the United States during 1988 totaled approximately 17,669 million dollars. The comparable figure for 1987 was 17,709 million dollars.

California accounted for 12.9 percent of the milk produced in the United States during 1988 and received 11.8 percent of the cash receipts from farm marketings of milk and cream. California ranked second among the various states in the average number of milk cows on farms during 1988. This State ranked first in production of milk per cow; second in total milk production; and second in cash receipts from farm marketings of milk and cream. The State of Wisconsin had more cows, produced more milk and received more from farm marketings of milk and cream than did California.

Estimates of the number of milk cows and heifers that had calved on farms by county and by crop reporting district in California at the beginning of 1988 and 1989 are given in Table 4. Of the total of 1,025 thousand head on farms in the State on January 1, 1989 approximately 58 percent were in the San Joaquin Valley, 28 percent in Southern California, and 6 percent in the Central Coast counties. The five leading counties were Tulare, San Bernardino, Stanislaus, Riverside, and Merced. Collectively these counties accounted for about 62 percent of all the milk cows in the State.

TABLE 2. ESTIMATED NUMBER OF MILK COWS ON FARMS, AVERAGE PRODUCTION PER MILK COW, TOTAL PRODUCTION ON FARMS, AND CASH RECEIPTS FROM FARM MARKETINGS OF DAIRY PRODUCTS, UNITED STATES, 1970-1988

	Milk Cows and Heifers that have calved, on farms		Average Production per milk cow		Total Production on farms		Cash Receipts from farm marketings of dairy products 2/
Year	Jan. 1 Total 1/	Annual Average	Milk	Milk Fat	Milk	Milk Fat	
	(thousands)		(pounds)		(million pounds)		(thousand dollars)
1970	13,303	12,000	9,747	357	116,962	4,283	6,525,163
1971	11,909	11,842	10,009	366	118,532	4,344	6,810,804
1972	11,778	11,698	10,250	377	119,904	4,408	7,134,676
1973	11,624	11,409	10,114	370	115,385	4,221	8,080,080
1974	11,286	11,219	10,300	378	115,553	4,238	9,430,140
1975	11,211	11,140	10,352	381	115,326	4,240	9,909,334
1976	11,087	11,055	10,879	399	120,269	4,406	11,428,455
1977	11,031	10,974	11,181	409	122,698	4,483	11,751,730
1978	10,939	10,841	11,218	412	121,609	4,462	12,689,783
1979	10,839	10,743	11,488	421	123,411	4,518	14,650,237
1980	10,769	10,810	11,889	434	128,525	4,696	16,583,532
1981	10,871	10,923	12,177	443	133,013	4,843	18,127,556
1982	11,029	11,011	12,306	450	135,505	4,950	18,233,471
1983	11,075	11,098	12,585	460	139,672	5,105	18,756,930
1984	11,026	10,833	12,503	458	135,450	4,964	17,943,618
1985	10,810	11,016	12,994	476	143,147	5,249	18,062,961
1986	11,177	10,813	13,260	486	143,381	5,258	17,753,188
1987	10,502	10,329	13,802	504	142,557	5,208	17,709,360
1988	10,298	10,239	14,213	522	145,527	5,347	17,669,043
1989	10,217						

1/ Prior to January 1, 1970, milk cows and heifers, two years old or older.

2/ All milk and cream.

TABLE 3. ESTIMATED NUMBER OF MILK COWS ON FARMS, AVERAGE PRODUCTION PER MILK COW, TOTAL PRODUCTION ON FARMS, AND CASH RECEIPTS FROM FARM MARKETINGS OF DAIRY PRODUCTS, BY STATES, 1988

State	Milk cows on farms 1/	Average production per milk cow		Total production on farms		Cash receipts from farm marketings of dairy products 2/
		Milk	Milk Fat	Milk	Milk Fat	
	(thousands)	(pounds)		(million pounds)		(thousand dollars)
Alabama	39	13,385	489	522	19	73,840
Alaska	2	14,619	506	31	1	5,969
Arizona	89	16,854	632	1,500	56	184,760
Arkansas	68	11,603	414	789	28	104,805
California	1,015	18,403	674	18,769	684	2,080,739
Colorado	74	16,581	614	1,227	45	160,693
Connecticut	36	15,028	562	541	20	72,752
Delaware	9	14,516	537	135	5	17,290
Florida	182	12,912	457	2,350	83	355,680
Georgia	104	11,875	436	1,235	45	175,890
Hawaii	12	13,333	463	160	6	32,190
Idaho	168	15,643	566	2,628	95	288,960
Illinois	206	13,617	498	2,805	103	338,062
Indiana	186	12,941	481	2,407	90	291,141
Iowa	307	12,267	443	3,766	136	429,520
Kansas	104	12,202	445	1,269	46	149,760
Kentucky	214	10,874	401	2,327	86	281,106
Louisiana	87	10,690	381	930	33	126,490
Maine	46	14,000	531	644	24	85,550
Maryland	109	13,239	490	1,443	53	185,640
Massachusetts	32	14,469	545	463	18	62,778
Michigan	350	14,937	547	5,228	191	640,686
Minnesota	802	12,983	473	10,412	379	1,194,425
Mississippi	68	11,676	425	794	29	107,615
Missouri	224	13,393	490	3,000	110	358,680
Montana	25	14,080	493	352	12	41,254
Nebraska	103	13,243	486	1,364	50	155,610
Nevada	19	14,053	510	267	10	31,702
New Hampshire	22	13,773	523	303	12	39,721
New Jersey	30	13,200	483	396	14	53,901
New Mexico	62	17,726	633	1,099	39	136,697
New York	822	13,900	512	11,426	420	1,393,266
North Carolina	106	14,670	549	1,555	58	219,675
North Dakota	92	11,543	421	1,062	39	111,289
Ohio	368	13,139	485	4,835	178	578,563
Oklahoma	108	10,926	396	1,180	43	148,350
Oregon	94	15,989	603	1,503	57	181,880
Pennsylvania	717	14,232	527	10,204	378	1,343,715
Rhode Island	3	14,444	539	39	2	5,450
South Carolina	39	12,333	486	481	19	71,080
South Dakota	146	12,000	436	1,752	64	199,525
Tennessee	201	11,010	405	2,213	81	266,100
Texas	349	13,940	502	4,865	175	643,248
Utah	74	15,770	571	1,167	42	136,397
Vermont	169	14,124	531	2,387	90	301,581
Virginia	143	13,986	512	2,000	73	263,074
Washington	216	18,361	683	3,966	148	492,850
West Virginia	27	11,148	411	301	11	37,049
Wisconsin	1,763	14,407	535	25,400	942	2,998,249
Wyoming	10	12,500	456	125	5	13,800
United States 3/	10,239	14,213	522	145,527	5,347	17,669,043

1/ Average number during year, heifers that have not freshened excluded.

2/ All milk and cream.

3/ State totals may not add to U.S. totals because of rounding.

TABLE 4. NUMBER OF MILK COWS AND HEIFERS THAT HAVE CALVED ON FARMS IN CALIFORNIA, BY COUNTIES AND DISTRICTS, 1988 AND 1989 1/

County and District	1988	1989
Del Norte	2,400	2,300
Humboldt	14,000	16,700
Mendocino	1,100	1,300
North Coast	17,500	20,300
Shasta	1,650	1,550
Siskiyou	2,700	2,800
Trinity	50	50
North Central	4,400	4,400
Lassen	250	250
Modoc	100	
Plumas	50	50
North East	400	300
Alameda		
Contra Costa	2,200	2,200
Lake		
Marin	12,500	12,900
Monterey	3,500	3,700
Napa	1,000	1,100
San Benito	1,000	1,500
San Francisco		
San Luis Obispo	1,400	1,300
San Mateo		
Santa Clara	4,000	4,000
Santa Cruz	400	400
Sonoma	34,000	37,500
Central Coast	60,000	64,600
Butte	1,300	1,400
Colusa	650	700
Glenn	12,500	13,200
Sacramento	22,000	27,000
Solano	1,200	1,500
Sutter	850	1,500
Tehama	3,200	3,300
Yolo	1,200	900
Yuba	1,600	1,500
Sacramento Valley	44,500	51,000
Fresno	52,500	50,000
Kern	18,000	17,000
Kings	71,000	71,000
Madera	19,500	20,000
Merced	106,000	100,000
San Joaquin	64,000	63,000
Stanislaus	103,000	106,000
Tulare	141,000	165,000
San Joaquin Valley	575,000	592,000
Alpine		
Amador	100	50
Calaveras	50	50
El Dorado	150	100
Inyo	50	50
Mariposa	100	50
Mono		
Nevada		
Placer	700	1,000
Sierra		50
Tuolumne	50	50
Sierra Mountain	1,200	1,400
Imperial	500	400
Los Angeles	3,000	3,600
Orange		
Riverside	106,000	103,000
San Bernardino	170,000	164,000
San Diego	15,500	13,200
Santa Barbara	4,500	4,200
Ventura	2,500	2,600
Southern California	302,000	291,000
State Totals	1,005,000	1,025,000

1/ Dairy cattle population estimated as of January 1 for each year.

COMMERCIAL PRODUCTION

Approximately 18,554 million pounds of milk were produced commercially in California during the year 1988. Of this amount, 18,075 million pounds were received as market grade milk and 480 million pounds were received as manufacturing grade milk. Between 1987 and 1988, the total commercial production increased 3.8 percent. Production of market grade milk increased 4.2 percent while the production of manufacturing grade milk decreased 8.7 percent. Market grade milk accounted for 97.4 percent of all commercial production in 1988, compared to 97.1 percent in 1987 and 96.2 percent ten years earlier in 1978.

The average milk fat content of all milk received at plants from producers in California during 1988 was 3.66 percent. That received as market milk contained an average of 3.66 percent milk fat, while that received as manufacturing grade milk contained an average of 3.76 percent milk fat.

The commercial production of all milk fat in California during 1988, amounted to approximately 680 million pounds, 4.8 percent more than was produced during 1987. Market milk fat amounted to 97.3 percent of production in 1988 compared to 97.0 percent in 1987. Between 1987 and 1988, the production of market milk fat increased 5.2 percent, while that of manufacturing milk fat decreased 7.9 percent.

The San Joaquin Valley accounted for 59.2 percent of all milk produced commercially in the State during 1988. The San Joaquin Valley accounted for 58.9 percent of the market milk and 67.7 percent of the manufacturing milk. Approximately 29.8 percent of all milk and 30.5 percent of the market milk was produced in Southern California. The five leading counties in market milk production in their order of their importance during 1988 were: San Bernardino, Tulare, Riverside, Merced and Stanislaus. These five counties accounted for 64.1 percent of the State's total production of market milk. The leading counties in manufacturing milk production were: Stanislaus, Merced, Glenn, Humboldt, and San Joaquin. These five counties accounted for 84.2 percent of the State's total manufacturing milk production. The five leading counties in total milk production were: San Bernardino, Tulare, Riverside, Stanislaus, and Merced. They accounted for 63.9 percent of the State's total milk production during 1988.

TABLE 5. AVERAGE MILK-FAT TEST AND COMMERCIAL PRODUCTION OF MILK-FAT AND WHOLE MILK IN CALIFORNIA, BY YEARS, 1971-1988

	MILK FAT			AVERAGE MILK-FAT TEST			WHOLE MILK		
	Market	Manufacturing	Total 1/	Market	Manufacturing	Total	Market	Manufacturing	Total
	(thousand pounds)			(percent)			(thousand pounds)		
1971	309,103	36,549	345,652	3.59	3.73	3.60	8,614,289	979,836	9,594,125
1972	327,371	41,940	369,311	3.57	3.69	3.59	9,163,369	1,136,171	10,299,540
1973	335,933	32,646	368,579	3.59	3.71	3.60	9,354,250	879,237	10,233,487
1974	351,133	26,748	377,881	3.59	3.69	3.60	9,776,188	724,765	10,500,953
1975	364,795	25,960	390,755	3.63	3.73	3.63	10,060,384	695,507	10,755,891
1976	390,950	22,562	413,512	3.59	3.75	3.60	10,886,279	602,087	11,488,366
1977	405,943	18,958	424,901	3.57	3.71	3.57	11,377,410	510,659	11,888,069
1978	408,311	16,816	425,127	3.60	3.76	3.61	11,329,087	447,648	11,776,735
1979	426,183	16,881	443,064	3.54	3.67	3.55	12,029,199	459,453	12,488,652
1980	468,324	19,050	487,374	3.60	3.68	3.60	12,998,001	517,997	13,515,998
1981	490,629	19,147	509,776	3.59	3.68	3.59	13,666,750	519,852	14,186,602
1982	504,415	20,954	525,369	3.63	3.70	3.63	13,901,010	566,472	14,467,482
1983	506,076	21,556	527,632	3.59	3.66	3.59	14,104,674	588,819	14,693,493
1984	522,989	21,244	544,233	3.57	3.66	3.57	14,654,257	580,604	15,234,861
1985	586,824	22,472	609,295	3.64	3.74	3.65	16,104,954	600,443	16,705,397
1986	603,432	19,646	623,078	3.63	3.74	3.63	16,643,908	525,846	17,169,754
1987	628,634	19,591	648,226	3.63	3.73	3.63	17,340,641	525,194	17,865,835
1988	661,511	18,035	679,546	3.66	3.76	3.66	18,074,742	479,711	18,554,453
1985									
January	47,144	1,554	48,699	3.84	3.92	3.84	1,228,704	39,634	1,268,338
February	43,134	1,354	44,487	3.76	3.85	3.77	1,146,402	35,180	1,181,582
March	48,625	1,659	50,285	3.67	3.74	3.67	1,326,117	44,412	1,370,529
April	47,854	1,895	49,749	3.55	3.62	3.55	1,348,341	52,375	1,400,716
May	50,191	1,966	52,157	3.53	3.60	3.53	1,423,286	54,698	1,477,984
June	47,769	1,997	49,766	3.49	3.58	3.49	1,369,144	55,797	1,424,941
July	49,018	2,156	51,174	3.48	3.57	3.48	1,408,198	60,382	1,468,579
August	50,555	2,155	52,710	3.53	3.64	3.53	1,433,482	59,263	1,492,745
September	49,419	2,044	51,463	3.62	3.76	3.63	1,363,232	54,284	1,417,516
October	51,150	1,983	53,133	3.69	3.85	3.70	1,385,076	51,546	1,436,622
November	50,014	1,851	51,866	3.78	3.96	3.78	1,323,796	46,798	1,370,594
December	51,950	1,856	53,806	3.85	4.03	3.86	1,349,176	46,075	1,395,251
1986									
January	52,172	1,498	53,670	3.75	3.88	3.76	1,389,622	38,622	1,428,244
February	47,790	1,333	49,123	3.76	3.84	3.77	1,269,820	34,755	1,304,576
March	52,434	1,720	54,154	3.70	3.76	3.71	1,415,745	45,722	1,461,466
April	50,424	1,750	52,174	3.61	3.69	3.61	1,398,200	47,408	1,445,608
May	51,358	1,801	53,159	3.53	3.65	3.54	1,453,691	49,340	1,503,031
June	49,130	1,806	50,936	3.49	3.59	3.49	1,409,140	50,325	1,459,465
July	50,870	1,765	52,635	3.48	3.58	3.48	1,463,266	49,357	1,512,623
August	50,047	1,765	51,812	3.51	3.64	3.52	1,424,530	48,530	1,473,060
September	48,979	1,649	50,628	3.60	3.76	3.60	1,360,797	43,911	1,404,707
October	50,552	1,595	52,147	3.68	3.84	3.68	1,375,633	41,554	1,417,188
November	48,827	1,484	50,311	3.68	3.88	3.69	1,325,200	38,272	1,363,472
December	50,848	1,480	52,328	3.74	3.89	3.75	1,358,264	38,050	1,396,314
1987									
January	51,239	1,312	52,551	3.77	3.81	3.77	1,358,384	34,419	1,392,804
February	46,759	1,291	48,051	3.71	3.77	3.71	1,260,984	34,222	1,295,206
March	52,573	1,541	54,114	3.67	3.74	3.67	1,433,359	41,163	1,474,522
April	51,265	1,698	52,963	3.56	3.65	3.56	1,439,223	46,568	1,485,792
May	53,162	1,796	54,958	3.49	3.59	3.50	1,521,775	50,038	1,571,813
June	51,923	1,802	53,725	3.49	3.57	3.49	1,489,828	50,420	1,540,248
July	54,480	1,764	56,244	3.50	3.62	3.51	1,554,814	48,764	1,603,578
August	54,159	1,828	55,987	3.53	3.65	3.53	1,535,907	50,041	1,585,948
September	51,850	1,633	53,483	3.57	3.68	3.57	1,452,686	44,365	1,497,051
October	53,766	1,702	55,468	3.63	3.81	3.64	1,480,222	44,680	1,524,902
November	52,619	1,633	54,252	3.77	3.97	3.78	1,393,936	41,179	1,435,115
December	54,838	1,591	56,429	3.86	4.04	3.87	1,419,521	39,334	1,458,855
1988									
January	54,685	1,250	55,935	3.86	3.99	3.86	1,416,949	31,367	1,448,316
February	51,469	1,222	52,691	3.76	3.83	3.76	1,370,329	31,927	1,402,256
March	55,566	1,429	56,995	3.65	3.71	3.65	1,521,398	38,528	1,559,926
April	55,236	1,489	56,725	3.60	3.68	3.60	1,534,167	40,476	1,574,643
May	57,693	1,704	59,398	3.59	3.70	3.60	1,605,172	46,046	1,651,219
June	55,657	1,779	57,436	3.55	3.63	3.55	1,569,950	49,001	1,618,951
July	55,548	1,730	57,277	3.52	3.61	3.52	1,578,751	47,946	1,626,697
August	55,560	1,666	57,226	3.53	3.65	3.53	1,573,914	45,619	1,619,533
September	53,113	1,481	54,594	3.61	3.74	3.61	1,473,156	39,587	1,512,743
October	55,515	1,486	57,002	3.67	3.82	3.68	1,511,270	38,922	1,550,192
November	54,308	1,401	55,709	3.76	3.93	3.77	1,443,149	35,608	1,478,757
December	57,160	1,396	58,557	3.87	4.02	3.87	1,476,537	34,684	1,511,221

1/ Monthly and annual totals have been derived from unrounded data, therefore the sum of monthly data may not equal annual totals. The original unrounded data may be found in Tables 7, 8, 9, 10, 11, and 12.

TABLE 6. COMMERCIAL PRODUCTION OF MILK, MILK FAT AND AVERAGE MILK FAT TEST IN CALIFORNIA, BY COUNTIES AND DISTRICTS, 1988

County and District	MILK 1/			MILK FAT			AVERAGE MILK-FAT TEST 2/		
	Market	Manufacturing	Total	Market	Manufacturing	Total	Market	Manufacturing	Total
	(thousand pounds)			(thousand pounds)			(percent)		
Del Norte	18,487	11,637	30,124	704	527	1,231	3.81	4.52	4.08
Humboldt	179,947	57,015	236,963	7,215	2,481	9,696	4.01	4.35	4.09
Mendocino	12,914		12,914	541		541	4.19		4.19
North Coast	211,349	68,652	280,001	8,460	3,008	11,468	4.00	4.38	4.10
Shasta	12,820		12,820	466		466	3.63		3.63
Siskiyou	39,946		39,946	1,485		1,485	3.72		3.72
Trinity									
North Central	52,766		52,766	1,950		1,950	3.70		3.70
Lassen	2,442		2,442	87		87	3.58		3.58
Modoc									
Plumas									
North East	2,442		2,442	87		87	3.58		3.58
Alameda									
Contra Costa	39,397	136	39,534	1,452	4	1,456	3.68	3.09	3.68
Lake									
Marin	241,966	584	242,550	8,788	21	8,809	3.63	3.62	3.63
Monterey	80,636	67	80,703	3,035	2	3,038	3.76	3.86	3.76
Napa	14,624		14,624	528		528	3.61		3.61
San Benito	9,422	1,594	11,015	356	60	416	3.77	3.77	3.77
San Francisco									
San Luis Obispo	17,968	868	18,837	650	32	682	3.62	3.63	3.62
San Mateo									
Santa Clara	26,140	43	26,183	934	2	936	3.57	3.90	3.57
Santa Cruz	10,900		10,900	390		390	3.58		3.58
Sonoma	567,887	2,492	570,379	21,225	100	21,324	3.74	4.00	3.74
Central Coast	1,008,940	5,785	1,014,724	37,358	221	37,579	3.70	3.82	3.70
Butte	15,531	525	16,056	603	21	624	3.88	3.96	3.89
Colusa	6,081	33	6,114	232	1	234	3.82	3.66	3.82
Glenn	151,807	58,928	210,735	5,625	2,343	7,968	3.70	3.98	3.78
Sacramento	309,652	7,430	317,082	11,483	268	11,750	3.71	3.60	3.70
Solano	23,182	19	23,202	829	1	829	3.57	3.58	3.57
Sutter	9,726		9,726	346		346	3.56		3.56
Tehama	50,066	7,159	57,225	1,916	270	2,186	3.83	3.78	3.82
Yolo	14,168	5	14,173	508		508	3.58	3.80	3.58
Yuba	37,233	27	37,260	1,503	1	1,504	4.04	3.75	4.04
Sacramento Valley	617,446	74,127	691,573	23,046	2,905	25,951	3.73	3.92	3.75
Fresno	1,122,102	8,294	1,130,396	41,218	297	41,515	3.67	3.58	3.67
Kern	351,021	134	351,155	12,852	5	12,857	3.66	3.60	3.66
Kings	1,206,184	4,489	1,210,674	44,608	162	44,770	3.70	3.60	3.70
Madera	317,035	16,006	333,041	11,500	577	12,077	3.63	3.60	3.63
Merced	1,874,877	121,402	1,996,280	69,592	4,421	74,013	3.71	3.64	3.71
San Joaquin	1,221,375	36,411	1,257,786	44,776	1,291	46,067	3.67	3.55	3.66
Stanislaus	1,874,300	130,129	2,004,429	68,598	4,623	73,221	3.66	3.55	3.65
Tulare	2,683,332	8,055	2,691,387	98,318	297	98,614	3.66	3.68	3.66
San Joaquin Valley	10,650,226	324,920	10,975,147	391,462	11,673	403,135	3.68	3.59	3.67
Alpine									
Amador									
Calaveras									
El Dorado	752		752	26		26	3.50		3.50
Inyo									
Mariposa									
Mono									
Nevada									
Placer	10,689		10,689	378		378	3.53		3.53
Sierra									
Tuolumne									
Sierra Mountain	11,442		11,442	404		404	3.53		3.53
Imperial	8,781		8,781	329		329	3.74		3.74
Los Angeles	74,901	58	74,959	2,623	2	2,625	3.50	3.66	3.50
Orange									
Riverside	2,032,197	3,334	2,035,531	73,219	122	73,341	3.60	3.65	3.60
San Bernardino	3,119,571	2,808	3,122,379	112,382	103	112,485	3.60	3.68	3.60
San Diego	196,553	26	196,579	7,058	1	7,059	3.59	3.52	3.59
Santa Barbara	48,484		48,484	1,773		1,773	3.66		3.66
Ventura	39,644		39,644	1,359		1,359	3.43		3.43
Southern California	5,520,132	6,226	5,526,358	198,744	228	198,972	3.60	3.66	3.60
State Total	18,074,742	479,711	18,554,453	661,511	18,035	679,546	3.66	3.76	3.66

1/ Totals have been determined from unrounded data. The original data may be found in Tables 7, 8, 9, 10, 11, and 12.
2/ Milk fat tests were computed from unrounded data.

TABLE 7. COMMERCIAL PRODUCTION OF ALL MILK IN CALIFORNIA, BY COUNTIES AND DISTRICTS, 1988

County and District	January	February	March	April	May	June	July	August	September	October	November	December
							(pounds)					
Del Norte	1,972,143	1,788,368	2,247,345	2,567,677	2,894,481	2,888,573	2,980,520	2,905,073	2,655,936	2,628,004	2,373,880	2,222,029
Humboldt	12,436,755	12,884,674	19,769,753	23,538,368	27,162,923	25,077,059	24,734,231	22,823,790	19,771,651	18,454,114	15,841,673	14,467,934
Mendocino	899,844	980,512	1,104,681	1,136,109	1,277,564	1,149,575	1,163,183	1,086,025	1,066,792	1,086,918	984,930	978,314
North Coast	15,308,742	15,653,554	23,121,779	27,242,154	31,334,968	29,115,207	28,877,934	26,814,888	23,494,379	22,169,036	19,200,483	17,668,277
Shasta	1,101,135	1,040,275	1,094,540	1,061,330	1,072,388	1,021,821	1,065,795	1,109,990	1,039,290	1,088,423	1,049,292	1,075,375
Siskiyou	3,117,378	3,077,841	3,331,338	3,426,754	3,690,870	3,475,002	3,437,468	3,474,935	3,279,637	3,282,507	3,099,476	3,252,730
Trinity												
North Central	4,218,513	4,118,116	4,425,878	4,488,084	4,763,258	4,496,823	4,503,263	4,584,925	4,318,927	4,370,930	4,148,768	4,328,105
Lassen	193,560	171,366	203,999	215,223	203,384	226,434	212,686	210,940	195,646	215,218	197,045	196,032
Modoc												
Plumas												
North East	193,560	171,366	203,999	215,223	203,384	226,434	212,686	210,940	195,646	215,218	197,045	196,032
Alameda												
Contra Costa	3,024,432	2,876,467	3,216,070	3,276,919	3,515,505	3,419,470	3,510,905	3,545,211	3,337,530	3,299,353	3,164,355	3,347,430
Lake												
Marin	19,447,817	18,733,487	20,643,173	20,298,397	21,224,480	20,511,897	21,315,446	21,030,194	19,691,850	20,119,382	19,418,867	20,115,428
Monterey	6,136,785	5,976,478	6,607,068	6,812,840	7,210,291	7,156,536	7,300,044	7,147,294	6,589,055	6,595,251	6,458,536	6,712,862
Napa	1,185,956	1,170,545	1,336,984	1,357,067	1,456,997	1,412,450	1,476,941	1,455,805	1,304,742	778,889	852,458	834,741
San Benito	806,455	737,971	787,026	759,906	848,494	1,106,889	1,127,462	1,031,342	959,707	975,725	932,971	941,393
San Francisco												
San Luis Obispo	1,470,576	1,512,726	1,665,387	1,649,839	1,715,251	1,661,233	1,728,645	1,728,956	1,648,414	1,379,051	1,320,385	1,356,311
San Mateo												
Santa Clara	1,947,436	1,883,537	2,075,629	2,142,455	2,252,682	2,314,001	2,524,524	2,415,213	2,354,147	2,351,744	2,223,967	1,697,678
Santa Cruz	877,213	880,996	924,545	900,948	940,069	903,200	918,895	866,237	853,303	909,028	923,638	1,001,826
Sonoma	45,419,669	43,952,889	48,672,414	48,367,079	50,445,322	48,954,588	50,549,662	49,684,753	46,631,724	46,679,514	44,900,657	46,120,430
Central Coast	80,316,339	77,725,096	85,928,296	85,565,450	89,609,091	87,440,264	90,452,524	88,905,005	83,370,472	83,087,937	80,195,834	82,128,099
Butte	1,282,304	1,270,667	1,406,039	1,409,639	1,455,008	1,358,710	1,312,779	1,297,141	1,229,340	1,251,515	1,428,851	1,354,247
Colusa	510,699	481,995	542,253	541,289	564,983	526,023	537,774	538,221	462,112	476,761	443,951	487,849
Glenn	15,797,898	15,566,146	17,555,067	17,919,922	19,148,028	18,725,330	18,857,784	18,706,660	17,524,725	17,475,227	16,409,323	17,048,721
Sacramento	25,439,076	23,859,649	26,670,196	26,501,737	28,448,198	27,859,556	28,491,614	28,056,915	26,175,630	26,074,572	24,563,954	24,941,312
Solano	1,722,540	1,643,139	1,782,779	1,994,635	2,127,585	2,100,254	2,097,968	2,111,260	2,032,523	2,028,073	1,784,011	1,776,975
Sutter	714,964	744,856	838,704	816,174	853,223	798,347	834,297	879,540	842,863	827,931	777,186	797,708
Tehama	4,500,065	4,358,116	5,167,189	4,935,598	5,242,618	4,923,467	4,987,568	4,854,405	4,378,951	4,713,652	4,477,593	4,685,742
Yolo	1,221,874	1,253,717	1,411,735	1,193,745	1,252,116	1,190,186	1,190,069	1,137,308	1,041,418	1,093,819	1,067,472	1,119,665
Yuba	2,993,238	2,913,080	3,192,954	3,091,065	3,273,739	3,143,438	3,239,136	3,208,872	3,050,545	3,093,598	2,949,170	3,110,925
Sacramento Valley	54,182,658	52,091,365	58,566,916	58,403,804	62,365,498	60,625,311	61,548,989	60,790,322	56,738,107	57,035,148	53,901,511	55,323,144

CONTINUED...

TABLE 7. COMMERCIAL PRODUCTION OF ALL MILK IN CALIFORNIA, BY COUNTIES AND DISTRICTS, 1988 - CONTINUED

County and District	January	February	March	April	May	June	July	August	September	October	November	December
						(pounds)						
Fresno	87,754,709	85,153,195	94,668,672	95,749,832	100,612,224	97,819,970	97,140,381	98,864,563	94,140,658	96,829,768	90,368,127	91,293,896
Kern	27,644,050	26,958,788	29,645,427	30,790,931	32,056,137	31,156,980	29,324,885	29,519,759	27,651,635	29,380,848	27,990,969	29,034,430
Kings	97,147,010	93,940,420	103,172,770	103,426,183	107,253,503	104,206,695	102,620,230	105,351,241	98,981,071	101,064,552	96,223,267	97,286,582
Madera	25,601,738	24,013,101	27,607,446	28,663,485	29,940,510	29,840,766	29,761,353	29,723,089	27,612,551	27,767,842	26,028,754	26,480,006
Merced	153,036,341	147,670,869	163,942,059	166,111,986	176,121,593	174,818,716	176,056,561	176,712,086	165,631,793	168,779,444	161,602,515	165,795,812
San Joaquin	98,071,052	93,933,408	102,898,003	103,639,298	109,710,462	109,385,526	111,532,153	111,889,050	104,457,155	105,737,931	101,766,812	104,765,140
Stanislaus	154,720,487	149,084,947	164,886,399	167,099,007	176,419,159	174,083,114	178,389,963	178,387,608	167,338,513	169,250,983	161,523,073	163,245,779
Tulare	207,811,728	202,106,899	226,887,285	230,669,114	240,429,647	233,371,039	230,268,997	233,778,066	219,745,891	226,602,319	216,839,216	222,877,023
San Joaquin Valley	851,787,115	822,861,627	913,708,061	926,149,836	972,543,235	954,682,806	955,094,523	964,225,462	905,559,267	925,413,687	882,342,733	900,778,668
Alpine												
Amador												
Calaveras												
El Dorado	84,002	97,048	97,532	103,467	99,181	102,800	96,974	71,479				
Inyo												
Mariposa												
Mono												
Nevada												
Placer	848,858	825,050	907,576	922,492	966,395	958,223	952,023	949,740	885,181	863,236	809,333	801,209
Sierra												
Tuolumne												
Sierra Mountain	932,860	922,098	1,005,108	1,025,959	1,065,576	1,061,023	1,048,997	1,021,219	885,181	863,236	809,333	801,209
Imperial	640,278	750,265	1,022,663	958,413	969,637	881,564	714,709	562,815	490,358	549,457	582,680	658,239
Los Angeles	6,069,229	5,784,556	6,462,632	6,038,621	6,379,928	6,309,154	6,201,493	6,324,467	6,089,862	7,094,756	6,079,110	6,125,545
Orange												
Riverside	162,177,728	158,186,295	173,071,601	172,019,939	179,542,123	174,687,734	179,172,646	176,350,522	162,860,150	168,771,440	162,078,665	166,612,417
San Bernardino	249,874,013	241,950,258	267,940,186	268,249,485	277,286,256	274,436,767	273,568,276	264,622,629	245,776,647	257,096,334	246,870,831	254,707,609
San Diego	15,444,672	15,048,684	16,757,938	16,738,508	17,398,939	17,376,001	17,648,536	17,223,184	16,134,835	16,434,407	15,434,320	14,939,062
Santa Barbara	3,911,109	3,800,602	4,236,605	4,145,708	4,349,284	4,409,270	4,477,813	4,399,524	3,680,046	3,721,991	3,671,159	3,680,918
Ventura	3,259,182	3,191,938	3,473,995	3,402,240	3,407,491	3,202,673	3,174,810	3,496,900	3,148,753	3,368,162	3,244,672	3,273,521
Southern California	441,376,211	428,712,598	472,965,620	471,552,914	489,333,658	481,303,163	484,958,283	472,980,041	438,180,651	457,036,547	437,961,437	449,997,311
State Totals	1,448,315,998	1,402,255,820	1,559,925,657	1,574,643,424	1,651,218,668	1,618,951,031	1,626,697,199	1,619,532,802	1,512,742,630	1,550,191,739	1,478,757,144	1,511,220,845

TABLE 8. COMMERCIAL PRODUCTION OF MARKET MILK IN CALIFORNIA, BY COUNTIES AND DISTRICTS, 1988

County and District	January	February	March	April	May	June	July	August	September	October	November	December
						(pounds)						
Del Norte	1,484,548	1,319,081	1,472,031	1,474,947	1,555,852	1,573,436	1,647,867	1,631,688	1,561,557	1,632,263	1,583,409	1,550,561
Humboldt	10,640,982	10,798,783	15,332,465	17,340,510	19,951,132	18,162,282	18,209,437	16,861,835	14,779,445	14,021,487	12,243,760	11,605,361
Mendocino	899,844	980,512	1,104,681	1,136,109	1,277,564	1,149,575	1,163,183	1,086,025	1,066,792	1,086,918	984,930	978,314
North Coast	13,025,374	13,098,376	17,909,177	19,951,566	22,784,548	20,885,293	21,020,487	19,579,548	17,407,794	16,740,668	14,812,099	14,134,236
Shasta	1,101,135	1,040,275	1,094,540	1,061,330	1,072,388	1,021,821	1,065,795	1,109,990	1,039,290	1,088,423	1,049,292	1,075,375
Siskiyou	3,117,378	3,077,841	3,331,338	3,426,754	3,690,870	3,475,002	3,437,468	3,474,935	3,279,637	3,282,507	3,099,476	3,252,730
Trinity												
North Central	4,218,513	4,118,116	4,425,878	4,488,084	4,763,258	4,496,823	4,503,263	4,584,925	4,318,927	4,370,930	4,148,768	4,328,105
Lassen	193,560	171,366	203,999	215,223	203,384	226,434	212,686	210,940	195,646	215,218	197,045	196,032
Modoc												
Plumas												
North East	193,560	171,366	203,999	215,223	203,384	226,434	212,686	210,940	195,646	215,218	197,045	196,032
Alameda												
Contra Costa	3,024,432	2,876,467	3,216,070	3,276,919	3,515,505	3,419,470	3,374,318	3,545,211	3,337,530	3,299,353	3,164,355	3,347,430
Lake												
Marin	19,382,266	18,640,562	20,594,757	20,242,146	21,164,124	20,456,860	21,267,698	20,975,252	19,691,850	20,081,492	19,387,836	20,081,647
Monterey	6,069,980	5,976,478	6,607,068	6,812,840	7,210,291	7,156,536	7,300,044	7,147,294	6,589,055	6,595,251	6,458,536	6,712,862
Napa	1,185,956	1,170,545	1,336,984	1,357,067	1,456,997	1,412,450	1,476,941	1,455,805	1,304,742	778,889	852,458	834,741
San Benito	806,455	737,971	787,026	759,906	848,494	852,106	830,410	725,450	766,435	773,926	760,528	772,860
San Francisco												
San Luis Obispo	1,470,576	1,440,196	1,582,420	1,518,904	1,641,632	1,582,926	1,646,736	1,657,843	1,582,168	1,307,906	1,250,944	1,286,126
San Mateo												
Santa Clara	1,947,436	1,883,537	2,075,629	2,142,455	2,252,682	2,314,001	2,524,524	2,415,213	2,310,823	2,351,744	2,223,967	1,697,678
Santa Cruz	877,213	880,996	924,545	900,948	940,069	903,200	918,895	866,237	853,303	909,028	923,638	1,001,826
Sonoma	45,247,735	43,737,433	48,501,530	48,166,742	50,203,273	48,755,188	50,346,223	49,365,980	46,432,924	46,485,115	44,713,460	45,931,242
Central Coast	80,012,049	77,344,185	85,626,029	85,177,927	89,233,067	86,852,737	89,685,789	88,154,285	82,868,830	82,582,704	79,735,722	81,666,412
Butte	1,282,304	1,270,667	1,325,398	1,152,577	1,440,377	1,358,710	1,306,482	1,297,141	1,229,340	1,251,515	1,262,318	1,354,247
Colusa	507,437	481,995	542,253	541,289	561,313	526,023	524,032	538,221	449,676	476,761	443,951	487,849
Glenn	11,947,414	11,539,266	12,864,791	12,852,287	13,675,724	13,385,641	13,489,798	12,907,739	12,261,828	12,009,316	12,102,650	12,770,472
Sacramento	24,873,634	23,240,948	25,632,335	25,781,322	27,694,879	27,094,874	28,031,258	27,657,964	25,637,467	25,562,441	24,046,040	24,398,805
Solano	1,722,540	1,643,139	1,782,779	1,975,251	2,127,585	2,100,254	2,097,968	2,111,260	2,032,523	2,028,073	1,784,011	1,776,975
Sutter	714,964	744,856	838,704	816,174	853,223	798,347	834,297	879,540	842,863	827,931	777,186	797,708
Tehama	3,991,495	3,827,952	4,488,715	4,258,203	4,448,341	4,235,858	4,254,164	4,201,091	3,912,922	4,154,502	4,080,936	4,211,555
Yolo	1,221,874	1,248,851	1,411,735	1,193,745	1,252,116	1,190,186	1,190,069	1,137,308	1,041,418	1,093,819	1,067,472	1,119,665
Yuba	2,993,238	2,913,080	3,192,954	3,091,065	3,263,152	3,143,438	3,239,136	3,192,625	3,050,545	3,093,598	2,949,170	3,110,925
Sacramento Valley	49,254,900	46,910,754	52,079,664	51,661,913	55,316,710	53,833,331	54,967,204	53,922,889	50,458,582	50,497,956	48,513,734	50,028,201

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TABLE 8. COMMERCIAL PRODUCTION OF MARKET MILK IN CALIFORNIA, BY COUNTIES AND DISTRICTS, 1988 - CONTINUED

County and District	January	February	March	April	May	June	July	August	September	October	November	December
						(pounds)						
Fresno	87,117,699	84,601,444	94,125,107	94,968,258	99,565,815	97,011,303	96,071,713	98,003,725	93,558,593	96,422,201	89,800,264	90,855,817
Kern	27,644,050	26,958,788	29,645,427	30,736,282	32,056,137	31,141,650	29,309,831	29,519,759	27,603,033	29,380,848	27,990,969	29,034,430
Kings	97,110,628	93,598,594	102,360,016	103,295,860	106,064,789	103,281,148	102,408,895	105,035,310	98,789,342	100,918,964	96,160,225	97,160,636
Madera	25,213,680	23,371,340	26,247,708	27,343,350	28,548,669	28,006,124	27,812,296	28,275,423	25,958,801	26,340,818	24,432,910	25,483,563
Merced	143,804,461	138,557,334	154,533,184	156,557,009	164,992,894	162,355,277	164,219,947	165,900,550	156,561,223	160,060,279	151,830,559	155,504,473
San Joaquin	95,279,000	91,179,045	100,149,962	101,028,362	106,702,200	105,691,757	108,217,760	108,749,392	101,615,499	102,711,430	98,372,079	101,678,744
Stanislaus	145,621,237	139,929,955	154,675,524	157,075,002	164,987,737	161,183,151	165,181,585	165,822,305	156,074,030	158,027,370	152,069,549	153,652,112
Tulare	206,714,761	201,105,253	225,861,353	229,784,527	239,901,024	232,961,772	229,612,777	233,335,675	219,438,633	225,492,112	216,597,561	222,526,914
San Joaquin Valley	828,505,516	799,301,753	887,598,281	900,788,650	942,819,265	921,632,182	922,834,804	934,642,139	879,599,154	899,354,022	857,254,116	875,896,689
Alpine												
Amador												
Calaveras												
El Dorado	84,002	97,048	97,532	103,467	99,181	102,800	96,974	71,479				
Inyo												
Mariposa												
Mono												
Nevada												
Placer	848,858	825,050	907,576	922,492	966,395	958,223	952,023	949,740	885,181	863,236	809,333	801,209
Sierra												
Tuolumne												
Sierra Mountain	932,860	922,098	1,005,108	1,025,959	1,065,576	1,061,023	1,048,997	1,021,219	885,181	863,236	809,333	801,209
Imperial	640,278	750,265	1,022,663	958,413	969,637	881,564	714,709	562,815	490,358	549,457	582,680	658,239
Los Angeles	6,069,229	5,784,556	6,462,632	6,038,621	6,330,568	6,309,154	6,201,493	6,324,467	6,089,862	7,091,101	6,079,110	6,120,617
Orange												
Riverside	161,978,136	157,972,737	172,915,898	171,624,291	179,406,278	174,592,059	178,795,289	175,740,188	162,365,631	168,473,072	161,961,160	166,371,984
San Bernardino	249,503,489	241,913,677	267,705,704	267,950,225	277,124,333	274,191,386	273,465,387	264,050,770	245,512,195	257,007,035	246,705,246	254,441,619
San Diego	15,444,672	15,048,684	16,732,331	16,738,508	17,398,939	17,376,001	17,648,536	17,223,184	16,134,835	16,434,407	15,434,320	14,939,062
Santa Barbara	3,911,109	3,800,602	4,236,605	4,145,708	4,349,284	4,409,270	4,477,813	4,399,524	3,680,046	3,721,991	3,671,159	3,680,918
Ventura	3,259,182	3,191,938	3,473,995	3,402,240	3,407,491	3,202,673	3,174,810	3,496,900	3,148,753	3,368,162	3,244,672	3,273,521
Southern California	440,806,095	428,462,459	472,549,828	470,858,006	488,986,530	480,962,107	484,478,037	471,797,848	437,421,680	456,645,225	437,678,347	449,485,960
State Totals	1,416,948,867	1,370,329,107	1,521,397,964	1,534,167,328	1,605,172,338	1,569,949,930	1,578,751,267	1,573,913,793	1,473,155,794	1,511,269,959	1,443,149,164	1,476,536,844

TABLE 9. COMMERCIAL PRODUCTION OF MANUFACTURING MILK IN CALIFORNIA, BY COUNTIES AND DISTRICTS, 1988

County and District	January	February	March	April	May	June	July	August	September	October	November	December
						(pounds)						
Del Norte	487,595	469,287	775,314	1,092,730	1,338,629	1,315,137	1,332,653	1,273,385	1,094,379	995,741	790,471	671,468
Humboldt	1,795,773	2,085,891	4,437,288	6,197,858	7,211,791	6,914,777	6,524,794	5,961,955	4,992,206	4,432,627	3,597,913	2,862,573
Mendocino												
North Coast	2,283,368	2,555,178	5,212,602	7,290,588	8,550,420	8,229,914	7,857,447	7,235,340	6,086,585	5,428,368	4,388,384	3,534,041
Shasta												
Siskiyou												
Trinity												
North Central												
Lassen												
Modoc												
Plumas												
North East												
Alameda												
Contra Costa							136,587					
Lake												
Marin	65,551	92,925	48,416	56,251	60,356	55,037	47,748	54,942		37,890	31,031	33,781
Monterey	66,805											
Napa												
San Benito						254,783	297,052	305,892	193,272	201,799	172,443	168,533
San Francisco												
San Luis Obispo		72,530	82,967	130,935	73,619	78,307	81,909	71,113	66,246	71,145	69,441	70,185
San Mateo												
Santa Clara									43,324			
Santa Cruz												
Sonoma	171,934	215,456	170,884	200,337	242,049	199,400	203,439	318,773	198,800	194,399	187,197	189,188
Central Coast	304,290	380,911	302,267	387,523	376,024	587,527	766,735	750,720	501,642	505,233	460,112	461,687
Butte			80,641	257,062	14,631		6,297				166,533	
Colusa	3,262				3,670		13,742		12,436			
Glenn	3,850,484	4,026,880	4,690,276	5,067,635	5,472,304	5,339,689	5,367,986	5,798,921	5,262,897	5,465,911	4,306,673	4,278,249
Sacramento	565,442	618,701	1,037,861	720,415	753,319	764,682	460,356	398,951	538,163	512,131	517,914	542,507
Solano				19,384								
Sutter												
Tehama	508,570	530,164	678,474	677,395	794,277	687,609	733,404	653,314	466,029	559,150	396,657	474,187
Yolo		4,866										
Yuba					10,587			16,247				
Sacramento Valley	4,927,758	5,180,611	6,487,252	6,741,891	7,048,788	6,791,980	6,581,785	6,867,433	6,279,525	6,537,192	5,387,777	5,294,943

CONTINUED.....

TABLE 9. COMMERCIAL PRODUCTION OF MANUFACTURING MILK IN CALIFORNIA, BY COUNTIES AND DISTRICTS, 1988 - CONTINUED

County and District	January	February	March	April	May	June	July	August	September	October	November	December
						(pounds)						
Fresno	637,010	551,751	543,565	781,574	1,046,409	808,667	1,068,668	860,838	582,065	407,567	567,863	438,079
Kern				54,649		15,330	15,054		48,602			
Kings	36,382	341,826	812,754	130,323	1,188,714	925,547	211,335	315,931	191,729	145,588	63,042	125,946
Madera	388,058	641,761	1,359,738	1,320,135	1,391,841	1,834,642	1,949,057	1,447,666	1,653,750	1,427,024	1,595,844	996,443
Merced	9,231,880	9,113,535	9,408,875	9,554,977	11,128,699	12,463,439	11,836,614	10,811,536	9,070,570	8,719,165	9,771,956	10,291,339
San Joaquin	2,792,052	2,754,363	2,748,041	2,610,936	3,008,262	3,693,769	3,314,393	3,139,658	2,841,656	3,026,501	3,394,733	3,086,396
Stanislaus	9,099,250	9,154,992	10,210,875	10,024,005	11,431,422	12,899,963	13,208,378	12,565,303	11,264,483	11,223,613	9,453,524	9,593,667
Tulare	1,096,967	1,001,646	1,025,932	884,587	528,623	409,267	656,220	442,391	307,258	1,110,207	241,655	350,109
San Joaquin Valley	23,281,599	23,559,874	26,109,780	25,361,186	29,723,970	33,050,624	32,259,719	29,583,323	25,960,113	26,059,665	25,088,617	24,881,979
Alpine												
Amador												
Calaveras												
El Dorado												
Inyo												
Mariposa												
Mono												
Nevada												
Placer												
Sierra												
Tuolumne												
Sierra Mountain												
Imperial												
Los Angeles					49,360					3,655		4,928
Orange												
Riverside	199,592	213,558	155,703	395,648	135,845	95,675	377,357	610,334	494,519	298,368	117,505	240,433
San Bernardino	370,524	36,581	234,482	299,260	161,923	245,381	102,889	571,859	264,452	89,299	165,585	265,990
San Diego			25,607									
Santa Barbara												
Ventura												
Southern California	570,116	250,139	415,792	694,908	347,128	341,056	480,246	1,182,193	758,971	391,322	283,090	511,351
State Totals	31,367,131	31,926,713	38,527,693	40,476,096	46,046,330	49,001,101	47,945,932	45,619,009	39,586,836	38,921,780	35,607,980	34,684,001

TABLE 10. COMMERCIAL PRODUCTION OF ALL MILK FAT IN CALIFORNIA, BY COUNTIES AND DISTRICTS, 1988

County and District	January	February	March	April	May	June	July	August	September	October	November	December
						(pounds)						
Del Norte	81,054	70,382	90,227	101,689	116,503	115,307	119,958	116,955	111,116	111,410	101,355	94,753
Humboldt	531,515	526,327	777,904	909,028	1,072,857	1,005,417	988,494	933,850	835,347	791,974	694,209	629,168
Mendocino	39,290	40,279	45,403	47,296	51,821	46,430	48,131	45,725	45,938	46,591	42,013	42,026
North Coast	651,859	636,988	913,534	1,058,013	1,241,181	1,167,154	1,156,583	1,096,530	992,401	949,975	837,577	765,947
Shasta	41,264	38,510	40,046	38,241	38,884	36,964	37,510	38,319	37,972	39,246	38,276	40,373
Siskiyou	120,957	118,505	125,430	124,867	133,692	125,240	122,052	123,469	120,775	123,452	119,342	127,038
Trinity												
North Central	162,221	157,015	165,476	163,108	172,576	162,204	159,562	161,788	158,747	162,698	157,618	167,411
Lassen	7,503	6,464	7,325	7,665	7,187	7,789	7,071	7,133	6,784	7,687	7,237	7,641
Modoc												
Plumas												
North East	7,503	6,464	7,325	7,665	7,187	7,789	7,071	7,133	6,784	7,687	7,237	7,641
Alameda												
Contra Costa	118,332	111,939	121,506	120,719	126,720	124,313	124,634	126,613	121,458	121,787	113,135	125,219
Lake												
Marin	736,689	685,179	733,325	711,762	751,935	729,992	762,498	762,333	728,375	743,669	717,139	746,483
Monterey	239,009	226,387	244,576	248,607	265,644	264,905	270,028	264,958	250,503	251,785	249,536	261,575
Napa	45,543	42,653	46,550	47,845	51,803	49,156	52,117	52,408	48,528	28,433	31,436	31,653
San Benito	31,213	28,130	29,447	28,424	31,467	40,591	40,831	38,190	36,525	37,627	36,110	37,086
San Francisco												
San Luis Obispo	57,008	55,964	60,126	58,604	60,545	57,843	59,988	60,401	58,695	50,659	49,341	52,579
San Mateo												
Santa Clara	72,008	68,022	73,558	74,134	77,337	81,257	88,915	84,134	84,296	85,379	81,957	64,611
Santa Cruz	32,584	31,301	31,927	31,118	32,977	31,638	31,861	31,029	31,416	33,556	33,660	36,610
Sonoma	1,753,340	1,652,741	1,783,625	1,753,720	1,844,442	1,787,591	1,844,931	1,844,913	1,777,567	1,783,538	1,719,928	1,778,213
Central Coast	3,085,726	2,902,316	3,124,640	3,074,933	3,242,870	3,167,286	3,275,803	3,264,979	3,137,363	3,136,433	3,032,242	3,134,029
Butte	52,325	50,925	55,351	53,228	55,134	51,091	50,194	49,738	46,204	48,571	55,941	55,423
Colusa	20,851	18,854	20,452	19,770	20,857	19,095	19,161	19,534	17,264	18,768	18,532	20,420
Glenn	635,521	604,049	659,833	660,823	710,341	683,607	680,893	682,224	649,922	666,042	650,215	684,828
Sacramento	995,280	912,505	988,446	970,103	1,036,413	997,692	1,005,391	1,007,318	962,062	962,012	934,262	979,039
Solano	66,232	62,035	65,334	71,573	76,176	73,192	72,100	74,244	70,810	69,688	62,112	65,802
Sutter	27,788	27,151	28,978	28,065	29,148	27,363	28,472	30,381	29,818	30,007	28,970	30,006
Tehama	184,633	169,160	192,666	180,169	194,436	181,271	182,034	180,507	166,386	181,885	180,560	192,618
Yolo	45,845	44,336	49,081	41,093	43,042	40,745	41,597	40,281	37,589	39,974	40,760	43,732
Yuba	128,036	120,825	127,873	123,122	129,361	123,201	126,085	124,545	120,513	125,608	123,369	131,834
Sacramento Valley	2,156,511	2,009,840	2,188,014	2,147,946	2,294,908	2,197,257	2,205,927	2,208,772	2,100,568	2,142,555	2,094,721	2,203,702

CONTINUED.....

TABLE 10. COMMERCIAL PRODUCTION OF ALL MILK FAT IN CALIFORNIA, BY COUNTIES AND DISTRICTS, 1988 - CONTINUED

County and District	January	February	March	April	May	June	July	August	September	October	November	December
						(pounds)						
Fresno	3,406,588	3,217,428	3,460,372	3,442,639	3,623,694	3,483,571	3,459,830	3,490,872	3,399,326	3,538,456	3,412,430	3,580,022
Kern	1,074,732	1,021,438	1,089,114	1,108,074	1,147,918	1,102,885	1,031,918	1,028,474	984,512	1,080,198	1,058,481	1,129,256
Kings	3,800,007	3,586,708	3,805,383	3,750,274	3,880,587	3,712,077	3,650,408	3,714,473	3,590,252	3,739,770	3,672,407	3,867,331
Madera	984,738	895,749	997,049	1,019,227	1,065,586	1,053,663	1,029,587	1,025,853	982,774	1,005,359	979,366	1,038,480
Merced	6,010,762	5,657,574	6,089,645	6,074,226	6,410,493	6,266,326	6,251,566	6,292,242	6,033,719	6,259,602	6,145,879	6,520,833
San Joaquin	3,783,267	3,565,275	3,780,299	3,756,537	3,978,815	3,891,577	3,932,812	3,974,140	3,751,477	3,853,485	3,798,332	4,001,121
Stanislaus	5,997,384	5,639,037	6,057,606	6,009,786	6,311,824	6,129,824	6,224,731	6,251,560	5,994,716	6,200,868	6,064,655	6,339,085
Tulare	8,136,034	7,679,957	8,314,675	8,302,050	8,607,877	8,236,545	8,101,661	8,151,943	7,885,203	8,273,201	8,190,156	8,735,272
San Joaquin Valley	33,193,512	31,263,166	33,594,143	33,462,813	35,026,794	33,876,468	33,682,513	33,929,557	32,621,979	33,950,939	33,321,706	35,211,400
Alpine												
Amador												
Calaveras												
El Dorado	3,333	3,501	3,370	3,726	3,481	3,505	3,119	2,308				
Inyo												
Mariposa												
Mono												
Nevada												
Placer	32,376	30,816	33,184	32,993	34,198	31,734	31,181	30,929	28,809	30,678	30,010	30,703
Sierra												
Tuolumne												
Sierra Mountain	35,709	34,317	36,554	36,719	37,679	35,239	34,300	33,237	28,809	30,678	30,010	30,703
Imperial	25,356	28,680	37,026	34,451	34,089	30,744	25,597	20,769	19,072	21,526	23,759	27,763
Los Angeles	238,063	198,620	244,725	212,214	218,404	219,851	205,206	216,425	217,454	212,642	216,075	225,771
Orange												
Riverside	6,119,214	5,803,959	6,242,460	6,159,650	6,403,576	6,123,766	6,198,216	6,150,392	5,761,446	6,122,152	5,980,169	6,275,841
San Bernardino	9,410,635	8,854,293	9,579,764	9,514,450	9,835,842	9,584,883	9,455,630	9,261,432	8,734,354	9,411,710	9,174,866	9,667,624
San Diego	583,804	546,492	593,465	590,890	613,322	599,190	606,151	598,893	573,480	598,880	578,843	575,783
Santa Barbara	151,702	140,238	153,845	147,463	156,642	156,432	157,559	155,327	130,948	137,449	141,625	143,982
Ventura	113,664	108,302	114,503	114,726	112,696	108,097	106,980	120,538	110,931	116,572	112,298	119,451
Southern California	16,642,438	15,680,584	16,965,788	16,773,844	17,374,571	16,822,963	16,755,339	16,523,776	15,547,685	16,620,931	16,227,635	17,036,215
State Totals	55,935,479	52,690,690	56,995,474	56,725,041	59,397,766	57,436,360	57,277,098	57,225,772	54,594,336	57,001,896	55,708,746	58,557,048

TABLE 11. COMMERCIAL PRODUCTION OF MARKET MILK FAT IN CALIFORNIA, BY COUNTIES AND DISTRICTS, 1988

County and District	January	February	March	April	May	June	July	August	September	October	November	December
						(pounds)						
Del Norte	57,326	49,149	57,488	56,575	59,823	58,515	61,333	59,225	59,057	63,520	61,526	60,562
Humboldt	448,585	435,980	594,737	655,928	769,476	711,860	711,400	672,927	607,904	587,506	524,105	494,310
Mendocino	39,290	40,279	45,403	47,296	51,821	46,430	48,131	45,725	45,938	46,591	42,013	42,026
North Coast	545,201	525,408	697,628	759,799	881,120	816,805	820,864	777,877	712,899	697,617	627,644	596,898
Shasta	41,264	38,510	40,046	38,241	38,884	36,964	37,510	38,319	37,972	39,246	38,276	40,373
Siskiyou	120,957	118,505	125,430	124,867	133,692	125,240	122,052	123,469	120,775	123,452	119,342	127,038
Trinity												
North Central	162,221	157,015	165,476	163,108	172,576	162,204	159,562	161,788	158,747	162,698	157,618	167,411
Lassen	7,503	6,464	7,325	7,665	7,187	7,789	7,071	7,133	6,784	7,687	7,237	7,641
Modoc												
Plumas												
North East	7,503	6,464	7,325	7,665	7,187	7,789	7,071	7,133	6,784	7,687	7,237	7,641
Alameda												
Contra Costa	118,332	111,939	121,506	120,719	126,720	124,313	120,412	126,613	121,458	121,787	113,135	125,219
Lake												
Marin	734,113	682,291	731,553	709,788	749,796	728,110	760,813	760,344	728,375	742,131	715,841	745,092
Monterey	236,429	226,387	244,576	248,607	265,644	264,905	270,028	264,958	250,503	251,785	249,536	261,575
Napa	45,543	42,653	46,550	47,845	51,803	49,156	52,117	52,408	48,528	28,433	31,436	31,653
San Benito	31,213	28,130	29,447	28,424	31,467	31,211	29,989	26,902	29,083	29,709	29,444	30,486
San Francisco												
San Luis Obispo	57,008	53,311	57,024	54,040	57,886	55,117	57,063	57,806	56,242	48,010	46,767	49,931
San Mateo												
Santa Clara	72,008	68,022	73,558	74,134	77,337	81,257	88,915	84,134	82,608	85,379	81,957	64,611
Santa Cruz	32,584	31,301	31,927	31,118	32,977	31,638	31,861	31,029	31,416	33,556	33,660	36,610
Sonoma	1,746,282	1,644,284	1,776,819	1,745,988	1,834,889	1,779,913	1,837,027	1,832,853	1,769,376	1,775,465	1,712,017	1,770,035
Central Coast	3,073,512	2,888,318	3,112,960	3,060,663	3,228,519	3,145,620	3,248,225	3,237,047	3,117,589	3,116,255	3,013,793	3,115,212
Butte	52,325	50,925	51,799	43,129	54,591	51,091	49,970	49,738	46,204	48,571	49,550	55,423
Colusa	20,715	18,854	20,452	19,770	20,726	19,095	18,668	19,534	16,811	18,768	18,532	20,420
Glenn	468,550	439,742	475,747	464,977	498,036	479,369	478,655	461,710	445,320	445,485	467,083	500,594
Sacramento	974,237	889,974	952,166	944,221	1,009,976	971,575	989,461	993,119	942,234	942,993	914,729	958,171
Solano	66,232	62,035	65,334	70,879	76,176	73,192	72,100	74,244	70,810	69,688	62,112	65,802
Sutter	27,788	27,151	28,978	28,065	29,148	27,363	28,472	30,381	29,818	30,007	28,970	30,006
Tehama	162,953	148,545	168,126	156,242	165,173	156,486	155,909	156,429	148,675	160,456	164,166	172,777
Yolo	45,845	44,151	49,081	41,093	43,042	40,745	41,597	40,281	37,589	39,974	40,760	43,732
Yuba	128,036	120,825	127,873	123,122	128,951	123,201	126,085	123,949	120,513	125,608	123,369	131,834
Sacramento Valley	1,946,681	1,802,202	1,939,556	1,891,498	2,025,819	1,942,117	1,960,917	1,949,385	1,857,974	1,881,550	1,869,271	1,978,759

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TABLE 11. COMMERCIAL PRODUCTION OF MARKET MILK FAT IN CALIFORNIA, BY COUNTIES AND DISTRICTS, 1988 - CONTINUED

County and District	January	February	March	April	May	June	July	August	September	October	November	December
						(pounds)						
Fresno	3,381,869	3,196,862	3,440,922	3,414,991	3,586,768	3,455,485	3,422,845	3,461,602	3,379,196	3,524,003	3,390,522	3,562,749
Kern	1,074,732	1,021,438	1,089,114	1,106,067	1,147,918	1,102,362	1,031,385	1,028,474	982,766	1,080,198	1,058,481	1,129,256
Kings	3,798,562	3,574,127	3,774,724	3,745,688	3,838,330	3,679,293	3,643,090	3,704,050	3,583,317	3,734,432	3,669,974	3,862,303
Madera	969,593	871,966	947,600	970,596	1,015,339	989,501	964,577	977,078	923,326	952,036	919,329	999,558
Merced	5,651,257	5,313,666	5,746,926	5,730,814	6,012,218	5,830,690	5,840,835	5,913,438	5,711,759	5,944,646	5,777,497	6,118,447
San Joaquin	3,676,350	3,462,228	3,687,342	3,665,500	3,873,349	3,764,689	3,821,356	3,867,920	3,654,053	3,747,127	3,672,932	3,882,801
Stanislaus	5,648,443	5,301,626	5,692,500	5,664,447	5,915,421	5,692,265	5,774,852	5,823,885	5,601,466	5,797,285	5,715,565	5,970,493
Tulare	8,092,633	7,642,495	8,276,691	8,270,319	8,589,367	8,222,149	8,078,806	8,136,467	7,874,170	8,232,097	8,180,920	8,721,647
San Joaquin Valley	32,293,439	30,384,408	32,655,819	32,568,422	33,978,710	32,736,434	32,577,746	32,912,914	31,710,053	33,011,824	32,385,220	34,247,254
Alpine												
Amador												
Calaveras												
El Dorado	3,333	3,501	3,370	3,726	3,481	3,505	3,119	2,308				
Inyo												
Mariposa												
Mono												
Nevada												
Placer	32,376	30,816	33,184	32,993	34,198	31,734	31,181	30,929	28,809	30,678	30,010	30,703
Sierra												
Tuolumne												
Sierra Mountain	35,709	34,317	36,554	36,719	37,679	35,239	34,300	33,237	28,809	30,678	30,010	30,703
Imperial	25,356	28,680	37,026	34,451	34,089	30,744	25,597	20,769	19,072	21,526	23,759	27,763
Los Angeles	238,063	198,620	244,725	212,214	216,592	219,851	205,206	216,425	217,454	212,510	216,075	225,594
Orange												
Riverside	6,111,624	5,795,555	6,236,879	6,145,041	6,398,396	6,120,216	6,185,298	6,128,403	5,743,765	6,111,703	5,975,781	6,266,472
San Bernardino	9,396,666	8,852,943	9,571,128	9,503,262	9,830,073	9,576,346	9,452,069	9,240,473	8,724,711	9,408,469	9,168,474	9,657,625
San Diego	583,804	546,492	592,564	590,890	613,322	599,190	606,151	598,893	573,480	598,880	578,843	575,783
Santa Barbara	151,702	140,238	153,845	147,463	156,642	156,432	157,559	155,327	130,948	137,449	141,625	143,982
Ventura	113,664	108,302	114,503	114,726	112,696	108,097	106,980	120,538	110,931	116,572	112,298	119,451
Southern California	16,620,879	15,670,830	16,950,670	16,748,047	17,361,810	16,810,876	16,738,860	16,480,828	15,520,361	16,607,109	16,216,855	17,016,670
State Totals	54,685,145	51,468,962	55,565,988	55,235,921	57,693,420	55,657,084	55,547,545	55,560,209	53,113,216	55,515,418	54,307,648	57,160,548

TABLE 12. COMMERCIAL PRODUCTION OF MANUFACTURING MILK FAT IN CALIFORNIA, BY COUNTIES AND DISTRICTS, 1988

County and District	January	February	March	April	May	June	July	August	September	October	November	December
						(pounds)						
Del Norte	23,728	21,233	32,739	45,114	56,680	56,792	58,625	57,730	52,059	47,890	39,829	34,191
Humboldt	82,930	90,347	183,167	253,100	303,381	293,557	277,094	260,923	227,443	204,468	170,104	134,858
Mendocino												
North Coast	106,658	111,580	215,906	298,214	360,061	350,349	335,719	318,653	279,502	252,358	209,933	169,049
Shasta												
Siskiyou												
Trinity												
North Central												
Lassen												
Modoc												
Plumas												
North East												
Alameda												
Contra Costa							4,222					
Lake												
Marin	2,576	2,888	1,772	1,974	2,139	1,882	1,685	1,989		1,538	1,298	1,391
Monterey	2,580											
Napa												
San Benito						9,380	10,842	11,288	7,442	7,918	6,666	6,600
San Francisco												
San Luis Obispo		2,653	3,102	4,564	2,659	2,726	2,925	2,595	2,453	2,649	2,574	2,648
San Mateo												
Santa Clara									1,688			
Santa Cruz												
Sonoma	7,058	8,457	6,806	7,732	9,553	7,678	7,904	12,060	8,191	8,073	7,911	8,178
Central Coast	12,214	13,998	11,680	14,270	14,351	21,666	27,578	27,932	19,774	20,178	18,449	18,817
Butte			3,552	10,099	543		224				6,391	
Colusa	136				131		493		453			
Glenn	166,971	164,307	184,086	195,846	212,305	204,238	202,238	220,514	204,602	220,557	183,132	184,234
Sacramento	21,043	22,531	36,280	25,882	26,437	26,117	15,930	14,199	19,828	19,019	19,533	20,868
Solano				694								
Sutter												
Tehama	21,680	20,615	24,540	23,927	29,263	24,785	26,125	24,078	17,711	21,429	16,394	19,841
Yolo		185										
Yuba					410			596				
Sacramento Valley	209,830	207,638	248,458	256,448	269,089	255,140	245,010	259,387	242,594	261,005	225,450	224,943

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TABLE 12. COMMERCIAL PRODUCTION OF MANUFACTURING MILK FAT IN CALIFORNIA, BY COUNTIES AND DISTRICTS, 1988 - CONTINUED

County and District	January	February	March	April	May	June	July	August	September	October	November	December
						(pounds)						
Fresno	24,719	20,566	19,450	27,648	36,926	28,086	36,985	29,270	20,130	14,453	21,908	17,273
Kern				2,007		523	533		1,746			
Kings	1,445	12,581	30,659	4,586	42,257	32,784	7,318	10,423	6,935	5,338	2,433	5,028
Madera	15,145	23,783	49,449	48,631	50,247	64,162	65,010	48,775	59,448	53,323	60,037	38,922
Merced	359,505	343,908	342,719	343,412	398,275	435,636	410,731	378,804	321,960	314,956	368,382	402,386
San Joaquin	106,917	103,047	92,957	91,037	105,466	126,888	111,456	106,220	97,424	106,358	125,400	118,320
Stanislaus	348,941	337,411	365,106	345,339	396,403	437,559	449,879	427,675	393,250	403,583	349,090	368,592
Tulare	43,401	37,462	37,984	31,731	18,510	14,396	22,855	15,476	11,033	41,104	9,236	13,625
San Joaquin Valley	900,073	878,758	938,324	894,391	1,048,084	1,140,034	1,104,767	1,016,643	911,926	939,115	936,486	964,146
Alpine												
Amador												
Calaveras												
El Dorado												
Inyo												
Mariposa												
Mono												
Nevada												
Placer												
Sierra												
Tuolumne												
Sierra Mountain												
Imperial												
Los Angeles					1,812					132		177
Orange												
Riverside	7,590	8,404	5,581	14,609	5,180	3,550	12,918	21,989	17,681	10,449	4,388	9,369
San Bernardino	13,969	1,350	8,636	11,188	5,769	8,537	3,561	20,959	9,643	3,241	6,392	9,999
San Diego			901									
Santa Barbara												
Ventura												
Southern California	21,559	9,754	15,118	25,797	12,761	12,087	16,479	42,948	27,324	13,822	10,780	19,545
State Totals	1,250,334	1,221,728	1,429,486	1,489,120	1,704,346	1,779,276	1,729,553	1,665,563	1,481,120	1,486,478	1,401,098	1,396,500

AVERAGE PRICES PAID TO PRODUCERS

The California Agricultural Statistics Service estimates the prices received by producers for many crops, livestock and livestock products. The livestock products include whole milk sold in wholesale quantities. Table 13 contains the estimated quantity-weighted-average monthly prices received by California producers for the period 1978 through 1988. Data for earlier years are available in other publications and have been published in previous annual **California Dairy Industry Statistics.**

The average producer prices paid monthly in California for market and manufacturing milk from 1978 through 1988 are presented in Tables 14 and 15. Prices paid for market milk presented in Table 14 reflect the varying quantities of the product paid for in accordance with class use as well as varying price levels for products with the same usage. Prices paid for manufacturing milk in Table 15 reflect primarily changes in price levels. Each price series is affected to some extent by variation in the average butterfat content of milk purchased from producers. The prices presented reflect the average test of the milk actually purchased each month from producers.

TABLE 13. AVERAGE PRICES PAID PRODUCERS IN CALIFORNIA FOR ALL WHOLE MILK, BY MONTHS, 1978-1988 1/

Year	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
	(dollars per hundredweight)												
1978	10.40	10.20	10.10	10.10	10.00	9.80	9.70	10.10	10.30	10.40	10.80	11.00	10.24
1979	10.90	11.10	11.00	11.00	11.10	11.20	11.20	11.40	11.60	12.00	12.30	12.50	11.44
1980	12.76	12.71	12.54	12.54	12.53	12.55	12.49	12.68	12.89	13.42	13.66	13.81	12.88
1981	13.73	13.63	13.58	13.51	13.26	13.17	13.14	13.10	13.24	13.58	13.60	13.71	13.44
1982	13.84	13.66	13.57	13.37	12.93	12.82	12.81	12.76	12.93	13.08	13.36	13.48	13.22
1983	13.48	13.42	13.33	13.09	12.87	12.66	12.65	12.70	12.82	13.14	13.37	13.30	13.07
1984	13.18	13.04	12.82	12.66	12.49	12.43	12.57	12.48	12.72	13.14	13.45	13.34	12.86
1985	13.22	13.07	12.80	12.23	12.09	11.93	11.71	11.72	11.94	11.81	11.96	12.09	12.21
1986	11.97	11.90	11.81	11.65	11.43	11.35	11.31	11.59	11.90	12.16	12.16	12.09	11.78
1987	11.86	11.69	11.61	11.23	11.06	11.17	11.34	11.37	11.48	11.36	11.56	11.62	11.44
1988	11.39	11.11	10.90	10.70	10.69	10.59	10.55	10.60	10.87	11.08	11.29	11.71	10.96

1/ Prices are f.o.b. plant.

TABLE 14. AVERAGE PRICES PAID PRODUCERS IN CALIFORNIA FOR MARKET MILK, BY MONTHS, 1978-1988 1/

Year	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
	(dollars per hundredweight)												
1978	10.40	10.30	10.10	10.10	10.00	9.85	9.75	10.10	10.30	10.40	10.80	11.00	10.26
1979	10.90	11.10	11.00	11.00	11.10	11.20	11.20	11.40	11.60	12.00	12.30	12.50	11.44
1980	12.80	12.76	12.59	12.58	12.56	12.59	12.53	12.72	12.93	13.46	13.70	13.84	12.92
1981	13.76	13.66	13.61	13.55	13.30	13.22	13.19	13.14	13.27	13.60	13.63	13.74	13.47
1982	13.87	13.69	13.60	13.41	12.97	12.86	12.85	12.79	12.96	13.11	13.39	13.50	13.25
1983	13.50	13.45	13.36	13.12	12.90	12.69	12.68	12.73	12.85	13.17	13.40	13.34	13.10
1984	13.21	13.07	12.85	12.70	12.52	12.46	12.61	12.51	12.75	13.17	13.47	13.37	12.89
1985	13.25	13.10	12.83	12.26	12.12	11.96	11.74	11.76	11.98	11.84	11.98	12.12	12.24
1986	11.99	11.92	11.83	11.67	11.45	11.37	11.33	11.61	11.92	12.18	12.18	12.10	11.80
1987	11.87	11.71	11.63	11.25	11.08	11.19	11.35	11.38	11.49	11.38	11.58	11.64	11.46
1988	11.41	11.13	10.92	10.72	10.71	10.61	10.57	10.62	10.89	11.10	11.31	11.73	10.98

1/ Prices are f.o.b. plant.

TABLE 15. AVERAGE PRICES PAID PRODUCERS IN CALIFORNIA FOR MANUFACTURING MILK, BY MONTHS, 1978-1988 1/

Year	January	February	March	April	May	June	July	August	September	October	November	December	Annual Average
	(dollars per hundredweight)												
1978	9.09	9.03	8.94	9.25	9.15	9.17	9.08	9.26	9.49	9.70	10.00	10.20	9.36
1979	10.00	9.85	9.80	10.10	10.30	10.30	10.30	10.40	10.70	11.10	11.60	11.60	10.50
1980	11.56	11.44	11.34	11.69	11.75	11.61	11.62	11.72	12.01	12.36	12.68	12.77	11.88
1981	12.71	12.64	12.84	12.49	12.21	12.10	12.06	12.22	12.38	12.89	12.87	12.86	12.52
1982	12.92	12.80	12.77	12.46	12.12	12.02	11.99	12.06	12.23	12.41	12.65	12.85	12.44
1983	12.82	12.58	12.67	12.42	12.25	12.04	12.02	12.05	12.19	12.26	12.55	12.37	12.35
1984	12.31	12.05	11.99	11.77	11.79	11.66	11.73	11.82	12.02	12.46	12.79	12.55	12.08
1985	12.27	12.05	11.78	11.39	11.25	11.23	10.97	10.89	11.00	11.02	11.25	11.31	11.37
1986	11.23	11.37	11.10	11.04	10.87	10.68	10.67	10.99	11.15	11.47	11.47	11.82	11.16
1987	11.27	11.08	10.91	10.66	10.59	10.66	10.88	10.96	10.98	10.72	10.88	10.94	10.88
1988	10.40	10.20	10.01	10.03	10.01	10.01	10.00	10.00	10.25	10.41	10.64	11.02	10.25

1/ Prices are f.o.b. plant.

UTILIZATION OF COMMERCIAL PRODUCTION

During 1988, approximately 24.4 percent of the total milk fat produced commercially in this State was used in fluid market milk. Fluid market milk for the purposes of Table 16 currently includes fluid whole milk, fluid lowfat milk, fluid skim milk, and yogurt. Fluid half-and-half used 1.5 percent of the milk fat; butter, 27.3 percent; cheese, including cottage cheese, 23.1 percent; condensed and evaporated milk products, 5.2 percent; frozen dairy products, 9.7 percent and all other manufactured products, 8.8 percent. Approximately 25.9 percent of the total milk fat was used in fluid market milk and cream. Manufactured products used the remaining 74.1 percent.

Approximately 37.1 percent of the market grade milk produced in 1988 was used in Class 1 milk products and 4.9 percent was used in manufactured products where market grade milk was mandatory. The remaining 58.0 percent was used in making all other kinds of manufactured products.

TABLE 16. ESTIMATED UTILIZATION OF CALIFORNIA'S COMMERCIAL MILK FAT PRODUCTION IN SELECTED DAIRY PRODUCTS, BY YEARS, 1968-1988

Year	Fluid Market Milk 1/	Fluid Market Cream 2/	Butter	Cheese 3/	Condensed Milk Products 4/	Frozen Dairy Products	Other Manufactured Products 5/
				(percent)			
1968	53.2	6.6	14.2	2.8	5.1	13.6	4.5
1969	52.3	6.0	15.5	2.6	5.0	13.7	4.9
1970	49.0	5.5	20.7	3.1	3.9	13.3	4.5
1971	47.1	5.1	22.1	3.4	4.0	13.0	5.3
1972	45.5	4.6	24.7	3.5	3.2	12.5	6.0
1973	45.6	4.7	24.2	4.4	3.0	12.4	5.7
1974	43.6	2.2	26.9	5.2	2.7	13.0	6.4
1975	42.2	2.2	28.1	5.9	2.7	13.2	5.7
1976	40.9	2.1	28.8	6.8	2.6	12.7	6.1
1977	40.0	2.1	29.9	7.5	2.2	12.2	6.1
1978	40.2	2.0	26.5	8.3	2.1	12.6	8.3
1979	38.8	2.0	26.9	9.2	2.1	12.1	8.9
1980	34.5	1.8	30.8	10.1	1.7	11.2	9.9
1981	32.5	1.7	30.6	11.6	1.9	11.1	10.6
1982	30.7	1.7	31.2	13.6	3.0	10.8	9.0
1983	30.8	1.7	29.3	15.7	3.9	11.4	7.2
1984	30.3	1.9	28.6	15.7	3.8	11.7	8.0
1985	27.4	1.8	30.4	18.3	4.0	10.5	7.6
1986	26.4	1.7	27.9	20.2	4.0	10.3	9.5
1987	25.4	1.6	26.9	22.4	4.2	10.0	9.5
1988	24.4	1.5	27.3	23.1	5.2	9.7	8.8

1/ Includes fluid whole milk, fluid lowfat milk, concentrated fluid milk, and fluid skim milk through 1973. Yogurt is also included for the period 1974-1988.

2/ Includes fluid cream and half-and-half through 1973; half-and-half only for subsequent years.

3/ Includes cottage cheese.

4/ Includes evaporated milk and other condensed milk products.

5/ Includes sour cream and all other fluid cream for the period 1974-1988.

TABLE 17. COMMERCIAL PRODUCTION AND USAGE OF MILK IN CALIFORNIA, BY YEARS, 1971-1988 1/

	COMMERCIAL PRODUCTION			CLASS 1 USAGE	AVAILABILITY FOR MANUFACTURE				
								Relative to Production	
	Market	Manufacturing	Total		Market	Manufacturing	Total	Market	Total
	(thousand pounds)							(percent)	
1971	8,614,289	979,836	9,594,125	5,406,666	3,207,623	979,836	4,187,459	37.2	43.6
1972	9,163,369	1,136,171	10,299,540	5,647,138	3,516,231	1,136,171	4,652,402	38.4	45.2
1973	9,354,250	879,237	10,233,487	5,719,894	3,634,356	879,237	4,513,593	38.9	44.1
1974	9,776,188	724,765	10,500,953	5,740,347	4,035,841	724,765	4,760,606	41.3	45.3
1975	10,060,384	695,507	10,755,891	5,837,522	4,222,862	695,507	4,918,369	42.0	45.7
1976	10,886,279	602,087	11,488,366	6,032,561	4,853,718	602,087	5,455,805	44.6	47.5
1977	11,377,410	510,659	11,888,069	6,143,455	5,233,955	510,659	5,744,614	46.0	48.3
1978	11,329,087	447,648	11,776,735	6,211,747	5,117,340	447,648	5,564,988	45.2	47.3
1979	12,029,199	459,453	12,488,652	6,292,820	5,736,379	459,453	6,195,832	47.7	49.6
1980	12,998,001	517,997	13,515,998	6,238,927	6,759,074	517,997	7,277,071	52.0	53.8
1981	13,666,750	519,853	14,186,603	6,188,714	7,478,036	519,853	7,997,889	54.7	56.4
1982	13,901,010	566,472	14,467,482	6,082,539	7,818,471	566,472	8,384,943	56.2	58.0
1983	14,104,674	588,819	14,693,493	6,177,320	7,927,354	588,819	8,516,173	56.2	58.0
1984	14,654,257	580,604	15,234,861	6,307,805	8,346,452	580,604	8,927,056	57.0	58.6
1985	16,104,954	600,443	16,705,397	6,503,604	9,601,350	600,443	10,201,793	59.6	61.1
1986	16,643,908	525,846	17,169,754	6,541,685	10,102,223	525,846	10,628,069	60.7	61.9
1987	17,340,641	525,194	17,865,835	6,566,746	10,773,895	525,194	11,299,089	62.1	63.2
1988	18,074,742	479,711	18,554,453	6,705,333	11,369,409	479,711	11,849,120	62.9	63.9

1/ All information in this table has been derived from unrounded data. Additional detail for the years 1987 and 1988 may be found in Table 22.

TABLE 18. COMMERCIAL PRODUCTION AND USAGE OF MARKET MILK FAT AND MARKET SKIM MILK IN CALIFORNIA, BY YEARS, 1971-1988 1/

	MARKET MILK FAT				MARKET SKIM MILK			
	Commercial Production	Usage		Other usage relative to production	Commercial Production	Usage		Other usage relative to production
		Class 1	Other			Class 1	Other	
	(thousand pounds)			(percent)	(thousand pounds)			(percent)
1971	309,103	180,183	128,920	41.7	8,305,186	5,226,483	3,078,703	37.1
1972	327,371	185,058	142,313	43.5	8,835,998	5,462,080	3,373,918	38.2
1973	335,933	185,344	150,589	44.8	9,018,317	5,534,550	3,483,767	38.6
1974	351,133	173,348	177,785	50.6	9,425,055	5,566,999	3,858,056	40.9
1975	364,795	173,102	191,693	52.5	9,695,589	5,664,420	4,031,169	41.6
1976	390,950	178,026	212,924	54.5	10,495,329	5,854,535	4,640,794	44.2
1977	405,943	178,958	226,985	55.9	10,971,467	5,964,497	5,006,970	45.6
1978	408,311	179,515	228,796	56.0	10,920,776	6,032,232	4,888,544	44.8
1979	426,183	180,650	245,533	57.6	11,603,016	6,112,170	5,490,846	47.3
1980	468,324	176,741	291,583	62.3	12,529,677	6,062,186	6,467,491	51.6
1981	490,629	174,337	316,292	64.5	13,176,121	6,014,377	7,161,744	54.4
1982	504,415	170,381	334,034	66.2	13,396,595	5,912,158	7,484,437	55.9
1983	506,076	171,767	334,309	66.1	13,598,598	6,005,553	7,593,045	55.8
1984	522,989	174,159	348,830	66.7	14,131,268	6,133,646	7,997,622	56.6
1985	586,824	177,182	409,642	69.8	15,518,130	6,326,422	9,191,708	59.2
1986	603,432	175,376	428,056	70.9	16,040,476	6,366,309	9,674,167	60.3
1987	628,634	174,998	453,636	72.2	16,712,007	6,391,748	10,320,259	61.8
1988	661,511	176,285	485,226	73.4	17,413,231	6,529,048	10,884,183	62.5

1/ All information in this table has been derived from unrounded data. Additional detail for the years 1987 and 1988 may be found in Tables 23 and 24.

TABLE 19. COMMERCIAL PRODUCTION OF MILK FAT AND SKIM MILK IN CALIFORNIA AVAILABLE FOR MANUFACTURE, BY YEARS, 1971-1988 1/

	QUANTITIES AVAILABLE FOR MANUFACTURE							
	MILK FAT				SKIM MILK			
	Manufacturing	Market	Total	Relative to Production 2/	Manufacturing	Market	Total	Relative to Production 3/
	(thousand pounds)			(percent)	(thousand pounds)			(percent)
1971	36,549	128,920	165,469	47.9	943,287	3,078,703	4,021,990	43.5
1972	41,940	142,313	184,253	49.9	1,094,231	3,373,918	4,468,149	45.0
1973	32,646	150,589	183,235	49.7	846,591	3,483,767	4,330,358	43.9
1974	26,748	177,785	204,533	54.1	698,017	3,858,056	4,556,073	45.0
1975	25,960	191,693	217,653	55.7	669,547	4,031,169	4,700,716	45.4
1976	22,562	212,924	235,486	56.9	579,525	4,640,794	5,220,319	47.1
1977	18,958	226,985	245,943	57.9	491,701	5,006,970	5,498,671	48.0
1978	16,816	228,796	245,612	57.8	430,832	4,888,544	5,319,376	46.9
1979	16,881	245,533	262,414	59.2	442,572	5,490,846	5,933,418	49.3
1980	19,050	291,583	310,633	63.7	498,947	6,467,491	6,966,438	53.5
1981	19,147	316,292	335,439	65.8	500,706	7,161,744	7,662,450	56.0
1982	20,954	334,034	354,988	67.6	545,518	7,484,437	8,029,955	57.6
1983	21,556	334,309	355,865	67.4	567,263	7,593,045	8,160,308	57.6
1984	21,244	348,830	370,074	68.0	559,360	7,997,622	8,556,982	58.2
1985	22,472	409,642	432,114	70.9	577,971	9,191,708	9,769,679	60.7
1986	19,646	428,056	447,702	71.8	506,199	9,674,167	10,180,366	61.5
1987	19,591	453,636	473,227	73.0	505,603	10,320,259	10,825,862	62.9
1988	18,035	485,226	503,261	74.1	461,676	10,884,183	11,345,859	63.5

1/ All information in this table has been derived from unrounded data. Additional detail for the years 1987 and 1988 may be found in Tables 23 and 24.

2/ The total commercial production of milk fat is presented in column 2 of Table 23.

3/ The total commercial production of skim milk is presented in column 2 of Table 24.

TABLE 20. SALES OF CALIFORNIA CLASS 1 MARKET MILK PRODUCTS, BY MONTHS, 1988

(gallons)

	January	February	March	April	May	June	July	August	September	October	November	December
Market Whole Milk	29,489,619	28,512,342	31,179,655	29,562,448	29,590,026	29,714,266	29,885,355	32,739,116	31,612,687	30,813,259	30,027,769	30,984,665
Market Lowfat Milk	25,686,433	24,836,537	27,147,881	25,842,109	25,979,979	24,965,468	24,138,946	25,726,397	27,196,201	27,396,441	26,530,241	26,867,145
Market Skim Milk	5,351,746	5,323,198	5,873,780	5,520,207	5,703,115	5,467,846	5,104,341	5,375,167	5,937,545	6,201,342	5,892,552	5,793,484
Half-and-Half	894,556	858,829	955,245	879,632	860,141	922,396	875,632	960,491	898,752	964,500	1,004,966	1,080,350
Yogurt	1,733,819	1,830,780	2,009,841	1,896,807	1,959,480	1,933,850	1,721,996	1,902,809	1,963,002	1,813,887	1,545,937	1,377,504
Other Class 1 Products	53,103	79,247	72,644	61,706	58,081	66,909	75,860	89,788	81,160	58,929	90,839	63,113
Total Class 1	63,209,276	61,440,933	67,239,046	63,762,909	64,150,822	63,070,735	61,802,130	66,793,768	67,689,347	67,248,358	65,092,304	66,166,261

MILK FAT SOLD IN CALIFORNIA CLASS 1 MARKET MILK PRODUCTS

(pounds)

Market Whole Milk	8,848,344	8,555,327	9,355,446	8,869,076	8,878,458	8,923,807	8,966,335	9,822,846	9,480,483	9,244,616	9,009,315	9,296,100
Market Lowfat Milk	4,253,983	4,112,774	4,500,317	4,282,103	4,305,632	4,142,144	4,010,403	4,271,719	4,528,083	4,560,656	4,414,943	4,477,373
Market Skim Milk	107,247	105,459	117,098	109,031	112,821	109,247	101,463	107,233	118,625	123,440	117,638	115,736
Half-and-Half	809,294	777,348	864,334	804,199	778,644	834,572	792,482	871,093	827,703	874,356	911,030	979,513
Yogurt	283,965	299,845	329,172	310,659	320,924	316,726	282,029	311,642	321,500	297,078	253,194	225,608
Other Class 1 Products	6,232	14,386	11,194	10,662	8,953	11,749	12,409	21,118	14,259	10,562	18,756	12,498
Total Class 1	14,309,065	13,865,139	15,177,561	14,385,730	14,405,432	14,338,245	14,165,121	15,405,651	15,290,653	15,110,708	14,724,876	15,106,828

TABLE 21. PRODUCTION OF SELECTED MANDATORY CLASS 2 PRODUCTS AND USAGE OF MARKET MILK FAT IN THESE PRODUCTS IN CALIFORNIA, BY MONTHS, 1988

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
						(product pounds)						
Sour Cream and Sour Cream Dressing	7,706,260	8,253,193	9,335,431	8,100,030	9,462,108	9,578,909	8,524,869	9,679,347	7,807,078	8,671,018	10,845,090	11,393,302
All Other Market Cream	4,966,164	5,391,079	6,799,426	7,378,556	7,026,984	6,786,761	6,704,141	6,378,876	5,953,733	7,436,912	9,578,014	7,616,104
Buttermilk	6,976,856	7,106,345	7,864,035	7,162,763	7,821,883	7,417,217	7,380,504	7,915,996	7,406,450	7,201,700	7,359,747	7,179,227
Creamed Cottage Cheese 1/	2,023,487	1,938,151	2,205,380	1,998,994	2,170,734	1,874,784	2,000,523	2,155,248	1,819,237	1,695,158	1,702,054	1,690,599
Lowfat Cottage Cheese 1/	1,613,769	1,583,985	1,779,486	1,602,167	1,774,467	1,624,725	1,666,160	1,808,248	1,546,077	1,437,368	1,459,396	1,410,099
Cottage Cheese, Dry Curd 2/	46,381,219	44,199,206	50,777,345	45,214,064	49,149,190	41,246,116	40,917,962	43,949,370	37,921,597	37,335,474	35,890,252	34,318,032
Filled and Imitation Products	56,848	73,195	72,287	72,543	57,131	71,957	57,178	56,936	73,633	40,568	63,639	39,074
Yogurt(Out-of-State Sales)	4,594,180	4,901,157	4,206,509	5,439,689	5,072,959	4,973,397	4,649,513	4,713,952	4,176,624	4,005,811	4,175,205	3,513,625
Total	74,318,783	73,446,312	83,039,900	76,968,807	82,535,456	73,573,867	71,900,849	76,657,973	66,704,430	67,824,009	71,073,398	67,160,062
						(pounds of market milk fat)						
Sour Cream and Sour Cream Dressing	1,546,711	1,656,485	1,873,699	1,625,744	1,899,124	1,922,567	1,711,013	1,942,726	1,566,946	1,740,346	2,176,700	2,286,731
All Other Market Cream	1,623,894	1,762,838	2,223,356	2,412,726	2,297,765	2,219,214	2,192,198	2,085,839	1,946,821	2,431,808	3,131,931	2,490,403
Buttermilk	32,375	32,976	36,492	33,238	36,296	34,419	34,248	36,733	34,369	33,418	34,152	33,314
Creamed Cottage Cheese 3/	293,406	281,032	319,780	289,854	314,756	271,844	290,076	312,511	263,789	245,798	246,798	245,137
Lowfat Cottage Cheese 4/	88,757	87,119	97,872	88,119	97,596	89,360	91,639	99,454	85,034	79,055	80,267	77,555
Cottage Cheese, Dry Curd												
Filled and Imitation Products												
Yogurt(Out-of-State Sales)	84,405	90,044	77,282	99,938	93,201	91,372	85,421	86,605	76,733	73,595	76,707	64,553
Total	3,669,548	3,910,494	4,628,481	4,549,620	4,738,739	4,628,776	4,404,595	4,563,868	3,973,693	4,604,020	5,746,555	5,197,693

1/ Approximately 0.34 pound of creaming mixture is added to each pound of curd in the creaming process.

2/ Approximately 7.14 pounds of skim milk are required to make one pound of dry curd.

3/ Creaming mixture for creamed cottage cheese tests 14.5 percent.

4/ Creaming mixture for lowfat cottage cheese tests 5.5 percent.

TABLE 22. UTILIZATION OF MARKET AND MANUFACTURING MILK PRODUCTION IN CALIFORNIA, BY MONTHS, 1987-1988

YEAR AND MONTH	COMMERCIAL MILK PRODUCTION	MARKET MILK PRODUCTION AND USAGE							MANUFACTURING MILK PRODUCTION	MILK AVAILABLE FOR MANUFACTURE 3/	
		PRODUCTION	USAGE								
			CLASS 1		MANDATORY CLASS 2		ALL OTHER				
	TOTAL 1/	TOTAL	TOTAL	RELATIVE TO PRODUCTION 2/	TOTAL	RELATIVE TO PRODUCTION	TOTAL	RELATIVE TO PRODUCTION	TOTAL	TOTAL	RELATIVE TO COMMERCIAL PRODUCTION
	- (thousand pounds) -		(thousand pounds)	(percent)	(thousand pounds)	(percent)	(thousand pounds)	(percent)	- (thousand pounds) -		(percent)
1987	17,865,835	17,340,641	6,566,746	37.9	1,011,353	5.8	9,762,541	56.3	525,194	10,287,735	57.6
1988	18,554,453	18,074,742	6,705,333	37.1	893,624	4.9	10,475,785	58.0	479,711	10,955,496	59.0
1987											
January	1,392,804	1,358,384	556,518	41.0	80,663	5.9	721,203	53.1	34,419	755,622	54.2
February	1,295,206	1,260,984	511,110	40.5	76,550	6.1	673,324	53.4	34,222	707,545	54.6
March	1,474,522	1,433,359	573,647	40.0	86,018	6.0	773,694	54.0	41,163	814,857	55.3
April	1,485,792	1,439,223	530,682	36.9	88,016	6.1	820,526	57.0	46,568	867,095	58.4
May	1,571,813	1,521,775	543,289	35.7	88,175	5.8	890,312	58.5	50,038	940,350	59.8
June	1,540,248	1,489,828	545,837	36.6	89,497	6.0	854,494	57.4	50,420	904,914	58.8
July	1,603,578	1,554,814	538,134	34.6	87,512	5.6	929,167	59.8	48,764	977,931	61.0
August	1,585,948	1,535,907	531,226	34.6	84,693	5.5	919,987	59.9	50,041	970,028	61.2
September	1,497,051	1,452,686	562,703	38.7	86,205	5.9	803,778	55.3	44,365	848,144	56.6
October	1,524,902	1,480,222	585,316	39.5	85,099	5.7	809,807	54.7	44,680	854,487	56.0
November	1,435,115	1,393,936	528,529	37.9	80,212	5.8	785,195	56.3	41,179	826,374	57.6
December	1,458,855	1,419,521	559,755	39.4	78,713	5.5	781,053	55.0	39,334	820,387	56.2
1988											
January	1,448,316	1,416,949	545,026	38.5	74,779	5.3	797,144	56.2	31,367	828,511	57.2
February	1,402,256	1,370,329	529,779	38.7	74,014	5.4	766,536	55.9	31,927	798,463	56.9
March	1,559,926	1,521,398	579,772	38.1	83,776	5.5	857,850	56.4	38,528	896,377	57.5
April	1,574,643	1,534,167	549,804	35.8	77,412	5.0	906,952	59.1	40,476	947,428	60.2
May	1,651,219	1,605,172	553,155	34.5	83,216	5.2	968,801	60.4	46,046	1,014,848	61.5
June	1,618,951	1,569,950	543,804	34.6	74,090	4.7	952,055	60.6	49,001	1,001,056	61.8
July	1,626,697	1,578,751	532,840	33.8	72,605	4.6	973,306	61.6	47,946	1,021,252	62.8
August	1,619,533	1,573,914	575,854	36.6	77,157	4.9	920,903	58.5	45,619	966,522	59.7
September	1,512,743	1,473,156	583,652	39.6	67,186	4.6	822,318	55.8	39,587	861,904	57.0
October	1,550,192	1,511,270	579,870	38.4	68,342	4.5	863,058	57.1	38,922	901,980	58.2
November	1,478,757	1,443,149	561,268	38.9	72,219	5.0	809,662	56.1	35,608	845,270	57.2
December	1,511,221	1,476,537	570,510	38.6	68,826	4.7	837,201	56.7	34,684	871,885	57.7

1/ Monthly and annual totals have been derived from unrounded data, therefore the sum of monthly data may not equal annual totals. The original unrounded data may be derived from Tables 7, 8, 9, 20, and 21.

2/ All percentages have been computed from unrounded data.

3/ The milk available for manufacturing purposes in California is Total Commercial Milk Production excluding Market Milk Class 1 and Mandatory Class 2 Milk Usage.

TABLE 23. UTILIZATION OF MARKET AND MANUFACTURING MILK FAT PRODUCTION IN CALIFORNIA, BY MONTHS, 1987-1988

YEAR AND MONTH	COMMERCIAL MILK FAT PRODUCTION	MARKET MILK FAT PRODUCTION AND USAGE							MANUFACTURING MILK FAT PRODUCTION	MILK FAT AVAILABLE FOR MANUFACTURE 3/	
		PRODUCTION	USAGE								
			CLASS 1		MANDATORY CLASS 2		ALL OTHER				
	TOTAL 1/	TOTAL	TOTAL	RELATIVE TO PRODUCTION 2/	TOTAL	RELATIVE TO PRODUCTION	TOTAL	RELATIVE TO PRODUCTION	TOTAL	TOTAL	RELATIVE TO COMMERCIAL PRODUCTION
	- (thousand pounds) -		(thousand pounds)	(percent)	(thousand pounds)	(percent)	(thousand pounds)	(percent)	- (thousand pounds) -		(percent)
1987	648,226	628,634	174,998	27.8	51,217	8.1	402,418	64.0	19,591	422,010	65.1
1988	679,546	661,511	176,285	26.6	55,118	8.3	430,108	65.0	18,035	448,143	65.9
1987											
January	52,551	51,239	14,868	29.0	3,670	7.2	32,700	63.8	1,312	34,012	64.7
February	48,051	46,759	13,618	29.1	3,679	7.9	29,463	63.0	1,291	30,754	64.0
March	54,114	52,573	15,208	28.9	4,141	7.9	33,224	63.2	1,541	34,765	64.2
April	52,963	51,265	14,082	27.5	4,466	8.7	32,717	63.8	1,698	34,415	65.0
May	54,958	53,162	14,372	27.0	4,255	8.0	34,536	65.0	1,796	36,331	66.1
June	53,725	51,923	14,586	28.1	4,284	8.2	33,053	63.6	1,802	34,855	64.9
July	56,244	54,480	14,494	26.6	4,306	7.9	35,680	65.5	1,764	37,444	66.6
August	55,987	54,159	14,518	26.8	3,945	7.3	35,695	65.9	1,828	37,524	67.0
September	53,483	51,850	14,888	28.7	4,130	8.0	32,832	63.3	1,633	34,465	64.4
October	55,468	53,766	15,365	28.6	4,252	7.9	34,148	63.5	1,702	35,850	64.6
November	54,252	52,619	14,005	26.6	5,016	9.5	33,598	63.8	1,633	35,230	64.9
December	56,429	54,838	14,993	27.3	5,072	9.2	34,773	63.4	1,591	36,363	64.4
1988											
January	55,935	54,685	14,309	26.2	3,691	6.8	36,685	67.1	1,250	37,935	67.8
February	52,691	51,469	13,865	26.9	3,945	7.7	33,659	65.4	1,222	34,880	66.2
March	56,995	55,566	15,178	27.3	4,664	8.4	35,724	64.3	1,429	37,154	65.2
April	56,725	55,236	14,386	26.0	4,574	8.3	36,276	65.7	1,489	37,765	66.6
May	59,398	57,693	14,405	25.0	4,772	8.3	38,516	66.8	1,704	40,220	67.7
June	57,436	55,657	14,338	25.8	4,666	8.4	36,653	65.8	1,779	38,432	66.9
July	57,277	55,548	14,165	25.5	4,433	8.0	36,949	66.5	1,730	38,679	67.5
August	57,226	55,560	15,406	27.7	4,596	8.3	35,559	64.0	1,666	37,224	65.0
September	54,594	53,113	15,291	28.8	3,999	7.5	33,824	63.7	1,481	35,305	64.7
October	57,002	55,515	15,111	27.2	4,634	8.3	35,771	64.4	1,486	37,258	65.4
November	55,709	54,308	14,725	27.1	5,818	10.7	33,765	62.2	1,401	35,166	63.1
December	58,557	57,160	15,107	26.4	5,326	9.3	36,728	64.2	1,396	38,125	65.1

1/ Monthly and annual totals have been derived from unrounded data, therefore the sum of monthly data may not equal annual totals. The original unrounded data may be derived from Tables 10, 11, 12, 20, and 21.

2/ All percentages have been computed from unrounded data.

3/ The milk fat available for manufacturing purposes in California is Total Commercial Milk Fat Production excluding Market Milk Class 1 and Mandatory Class 2 Milk Fat Usage.

TABLE 24. UTILIZATION OF MARKET AND MANUFACTURING SKIM MILK PRODUCTION IN CALIFORNIA, BY MONTHS, 1987-1988

YEAR AND MONTH	COMMERCIAL SKIM MILK PRODUCTION	MARKET SKIM MILK PRODUCTION AND USAGE								MANUFACTURING SKIM MILK PRODUCTION	SKIM MILK AVAILABLE FOR MANUFACTURE 3/	
		PRODUCTION	USAGE									
			CLASS 1		MANDATORY CLASS 2		ALL OTHER					
	TOTAL 1/	TOTAL	TOTAL	RELATIVE TO PRODUCTION 2/	TOTAL	RELATIVE TO PRODUCTION	TOTAL	RELATIVE TO PRODUCTION		TOTAL	TOTAL	RELATIVE TO COMMERCIAL PRODUCTION
	- (thousand pounds) -		(thousand pounds)	(percent)	(thousand pounds)	(percent)	(thousand pounds)	(percent)		- (thousand pounds) -		(percent)
1987	17,217,609	16,712,006	6,391,748	38.2	960,136	5.7	9,360,122	56.0		505,603	9,865,725	57.3
1988	17,874,907	17,413,231	6,529,048	37.5	838,506	4.8	10,045,677	57.7		461,676	10,507,353	58.8
1987												
January	1,340,252	1,307,145	541,650	41.4	76,993	5.9	688,502	52.7		33,107	721,610	53.8
February	1,247,155	1,214,225	497,492	41.0	72,872	6.0	643,861	53.0		32,930	676,791	54.3
March	1,420,408	1,380,786	558,438	40.4	81,876	5.9	740,741	53.6		39,622	780,093	54.9
April	1,432,829	1,387,958	516,600	37.2	83,550	6.0	787,809	56.8		44,871	832,680	58.1
May	1,516,856	1,468,613	528,917	36.0	83,920	5.7	855,776	58.3		48,242	904,018	59.6
June	1,486,523	1,437,905	531,251	36.9	85,213	5.9	821,441	57.1		48,618	870,059	58.5
July	1,547,333	1,500,334	523,641	34.9	83,206	5.5	893,487	59.6		47,000	940,487	60.8
August	1,529,961	1,481,748	516,708	34.9	80,748	5.4	884,292	59.7		48,212	932,505	61.0
September	1,443,568	1,400,836	547,814	39.1	82,075	5.8	770,946	55.0		42,732	813,678	56.4
October	1,469,434	1,426,456	569,950	40.0	80,847	5.7	775,659	54.4		42,978	818,637	55.7
November	1,380,863	1,341,317	514,524	38.4	75,195	5.6	751,597	56.0		39,546	791,144	57.3
December	1,402,426	1,364,682	544,762	39.9	73,641	5.4	746,280	54.7		37,743	784,024	55.9
1988												
January	1,392,380	1,362,264	530,716	39.0	71,088	5.2	760,459	55.8		30,117	790,576	56.8
February	1,349,565	1,318,860	515,913	39.1	70,069	5.3	732,878	55.6		30,705	763,582	56.6
March	1,502,931	1,465,832	564,595	38.5	79,112	5.4	822,125	56.1		37,098	859,224	57.2
April	1,517,918	1,478,931	535,418	36.2	72,838	4.9	870,676	58.9		38,987	909,662	59.9
May	1,591,821	1,547,479	538,749	34.8	78,444	5.1	930,285	60.1		44,342	974,627	61.2
June	1,561,515	1,514,293	529,466	35.0	69,424	4.6	915,403	60.4		47,222	962,624	61.6
July	1,569,420	1,523,204	518,675	34.0	68,172	4.5	936,356	61.5		46,216	982,573	62.6
August	1,562,307	1,518,354	560,449	36.9	72,561	4.8	885,344	58.3		43,953	929,297	59.5
September	1,458,148	1,420,042	568,361	40.0	63,187	4.4	788,494	55.5		38,106	826,600	56.7
October	1,493,190	1,455,754	564,759	38.8	63,708	4.4	827,287	56.8		37,435	864,722	57.9
November	1,423,048	1,388,842	546,543	39.4	66,401	4.8	775,898	55.9		34,207	810,104	56.9
December	1,452,664	1,419,376	555,403	39.1	63,500	4.5	800,473	56.4		33,288	833,760	57.4

1/ Monthly and annual totals have been derived from unrounded data, therefore the sum of monthly data may not equal annual totals. The original unrounded data may be derived from Tables 7, 8, 9, 10, 11, 12, 20, and 21.

2/ All percentages have been computed from unrounded data.

3/ The skim milk available for manufacturing purposes in California is Total Commercial Skim Milk Production excluding Market Milk Class 1 and Mandatory Class 2 Skim Milk Usage.

SALES OF CLASS 1 MARKET MILK PRODUCTS

Total sales of Class 1 market milk products in California during 1988 amounted to approximately 777.7 million gallons. This included 676.4 million gallons of fluid whole and lowfat milk, 67.5 million gallons of fluid skim milk, 11.2 million gallons of half-and-half, and 22.5 million gallons of yogurt and miscellaneous Class 1 products. The sales of fluid whole and lowfat milk included approximately 10.2 million gallons to the Federal Government and 666.2 million gallons to the remainder of the population, the civilian trade.

Beginning in January 1974, changes were made in the usage-classification of several products made with market grade milk. The changes which are reflected in this section are the following: (1) The product called flavored dairy drink was replaced by flavored lowfat milk and flavored nonfat milk and included as components of lowfat milk sales and fluid skim milk sales, respectively; (2) all fluid cream items except half-and-half became Class 2 usage items; and (3) yogurt sales in California plus sales of the Class 1 skim portion of imitation milk products have been included as part of Class 1 sales. Because of these changes, valid comparisons between 1988 Class 1 sales and Class 1 sales for years prior to 1974 are difficult to make.

Between 1987 and 1988, total Class 1 sales increased approximately 2.1 percent. Sales of fluid whole and lowfat milk increased 1.0 percent, sales of fluid skim milk increased 13.0 percent, and sales of fluid half-and-half were up 1.9 percent.

A summary of fluid milk sales by types of trade in California for the years 1971 through 1988 is presented in Table 36. During 1988, sales of market whole milk and lowfat milk to the wholesale trade (stores, restaurants, schools, hospitals, etc.) by distributors on their own routes represented 82.9 percent of total sales; sales by distributors on their own routes to retail customers accounted for 0.1 percent; sales to retail customers cash-and-carry at the ranch and/or processing plant, 0.2 percent; sales to subdistributors (peddlers) for resale to the trade, 15.2 percent; and sales to the Federal Government, 1.5 percent.

TABLE 25. SALES OF CLASS 1 MARKET MILK PRODUCTS IN CALIFORNIA, BY YEARS, 1971-1988

	Whole and Lowfat Milk			Market Skim Milk	Flavored Dairy Drink	Half and Half	Market Cream			Total Class 1 2/
	Total 1/	Federal Government	Other				Total	Sour	Other	
					(thousand gallons)					
1971	569,655	30,396	539,259	36,220	9,864	8,427	4,516	3,597	919	628,682
1972	594,110	30,628	563,482	39,738	10,231	8,087	4,478	3,581	897	656,644
1973	600,990	30,178	570,812	41,523	9,820	8,166	4,605	3,773	832	665,104
1974	601,450	27,972	573,478	43,639		8,212				667,482
1975	609,327	23,428	585,899	46,263	Included	8,207	No longer Class 1			678,782
1976	634,292	21,683	612,609	46,540	in	8,516	products			701,461
1977	646,060	20,254	625,806	47,312	Market	8,614				714,355
1978	654,784	18,077	636,707	46,097	Whole,	9,095				722,296
1979	662,761	17,203	645,558	45,046	Lowfat,	9,378				731,723
1980	655,269	16,243	639,026	44,694	and	9,394				725,455
1981	650,965	15,476	635,489	44,170	Skim Milk	9,650				719,615
1982	640,484	15,340	625,144	42,429		9,700				707,272
1983	648,682	15,970	632,712	42,768		10,068				718,273
1984	657,391	15,725	641,666	47,406		11,247				733,466
1985	671,882	15,141	656,741	52,662		11,958				756,233
1986	670,727	19,179	651,548	56,110		11,707				758,778
1987	669,779	11,069	658,710	59,770		10,949				761,629
1988	676,437	10,178	666,259	67,544		11,155				777,666
1985										
January	56,764	1,369	55,395	4,407		955				63,718
February	52,829	1,267	51,562	4,183		877				59,368
March	57,060	1,374	55,686	4,633	Included	993	No longer Class 1			64,398
April	55,961	1,297	54,664	4,499	in	986	products			63,190
May	57,326	1,325	56,001	4,630	Market	1,034				64,799
June	51,345	1,203	50,142	4,059	Whole,	911				57,963
July	56,164	1,289	54,875	4,096	Lowfat,	973				62,973
August	57,415	1,192	56,223	4,174	and	998				64,375
September	55,803	1,177	54,626	4,352	Skim Milk	936				62,778
October	59,432	1,260	58,172	4,896		1,026				67,131
November	57,134	1,243	55,891	4,480		1,099				64,109
December	54,647	1,144	53,503	4,254		1,169				61,430
1986										
January	57,831	1,618	56,213	4,770		1,024				65,326
February	52,313	1,320	50,993	4,440		934				59,264
March	56,369	1,646	54,723	4,795	Included	1,033	No longer Class 1			64,082
April	55,520	1,560	53,960	4,819	in	1,025	products			63,200
May	56,822	1,534	55,288	4,940	Market	1,022				64,663
June	53,022	1,378	51,644	4,408	Whole,	903				60,061
July	54,979	1,506	53,473	4,340	Lowfat,	947				62,069
August	56,075	1,493	54,582	4,366	and	970				63,061
September	56,710	1,664	55,046	4,794	Skim Milk	939				64,281
October	58,343	1,804	56,539	5,095		980				66,044
November	55,317	1,858	53,460	4,710		903				62,377
December	57,426	1,799	55,626	4,632		1,028				64,349
1987										
January	57,105	1,133	55,972	4,909		914				64,546
February	52,077	987	51,090	4,686		900				59,280
March	58,336	981	57,356	5,328	Included	992	No longer Class 1			66,531
April	53,975	1,107	52,868	4,899	in	859	products			61,550
May	55,220	1,236	53,983	5,039	Market	885				63,010
June	55,470	868	54,602	4,852	Whole,	935				63,310
July	55,212	903	54,308	4,603	Lowfat,	920				62,419
August	54,389	660	53,729	4,524	and	835				61,618
September	57,281	767	56,513	5,144	Skim Milk	885				65,262
October	59,486	889	58,597	5,652		874				67,882
November	53,870	736	53,133	5,043		908				61,298
December	57,358	801	56,558	5,089		1,041				64,922
1988										
January	55,176	783	54,393	5,352		894				63,209
February	53,349	860	52,489	5,323		859				61,441
March	58,328	1,080	57,248	5,874		955				67,239
April	55,404	944	54,461	5,520		880				63,763
May	55,570	816	54,754	5,703		860				64,151
June	54,707	863	53,844	5,468		922				63,071
July	54,024	785	53,240	5,104		876				61,802
August	58,466	772	57,693	5,375		960				66,794
September	58,795	842	57,953	5,938		899				67,689
October	58,208	829	57,379	6,201		964				67,248
November	56,558	799	55,759	5,892		1,005				65,092
December	57,852	805	57,047	5,793		1,080				66,166

1/ Monthly and annual totals have been derived from unrounded data published in Tables 28, 30, 33, 34, and 35. Therefore, the sum of monthly data may not equal annual totals.

2/ Subsequent to 1973, total Class 1 includes yogurt and miscellaneous Class 1 products.

TABLE 26. CLASS 1 SALES OF SELECTED FLUID MARKET MILK PRODUCTS IN CALIFORNIA, BY MARKETING AREAS, 1988

Marketing Area	Market Whole Milk	Market Lowfat Milk	Market Skim Milk	Half-and-Half	Total Class 1
			(gallons)		
Northern California	105,819,937	117,449,664	22,815,906	4,749,224	1/
South Valley	27,294,167	19,636,094	2,894,577	392,764	
Southern California	228,919,213	173,099,185	41,425,773	5,941,913	
Del Norte-Humboldt	1,753,123	1,791,771	341,843	61,853	
Out of Area	337,926	337,064	66,224	23,577	
State Totals	364,124,366	312,313,778	67,544,323	11,169,331	777,665,889

1/ Sales of yogurt and miscellaneous Class 1 products are not available by marketing areas.

TABLE 27. CLASS 1 SALES OF SELECTED MARKET MILK PRODUCTS IN CALIFORNIA, BY MARKETING AREAS, BY MONTHS,1988 1/

Marketing Area	January	February	March	April	May	June	July	August	September	October	November	December
						(gallons)						
Northern California	20,458,317	19,772,774	21,595,850	20,694,973	21,095,752	20,428,830	20,140,163	21,510,030	21,687,924	21,335,608	21,053,980	21,060,530
South Valley	3,962,237	3,838,323	4,090,664	3,989,303	3,856,086	3,780,445	3,772,936	5,594,850	4,437,607	4,450,288	4,404,108	4,040,755
Southern California	36,635,421	35,554,895	39,078,638	36,761,589	36,793,346	36,507,181	35,720,316	37,262,528	39,087,230	39,116,202	37,626,664	39,242,074
Del Norte-Humboldt	325,400	325,637	345,886	317,796	320,310	305,530	297,793	343,969	358,349	398,141	301,522	308,257
Out of Area	40,979	39,277	45,523	40,735	67,767	74,990	73,066	89,794	74,075	75,303	69,254	74,028
State Totals	61,422,354	59,530,906	65,156,561	61,804,396	62,133,261	61,096,976	60,004,274	64,801,171	65,645,185	65,375,542	63,455,528	64,725,644

1/ Sales of yogurt and miscellaneous Class 1 products are not included because they are not available by marketing areas.

TABLE 28. TOTAL SALES OF MARKET WHOLE MILK AND LOWFAT MILK IN CALIFORNIA, BY MARKETING AREAS, 1988 1/

Marketing Area	January	February	March	April	May	June	July	August	September	October	November	December
						(gallons)						
Northern California	18,360,120	17,681,032	19,259,766	18,438,836	18,786,870	18,150,919	17,942,291	19,144,777	19,321,951	18,845,006	18,675,637	18,662,396
South Valley	3,715,899	3,610,497	3,822,698	3,733,891	3,598,005	3,520,895	3,517,997	5,229,252	4,146,191	4,157,391	4,112,520	3,765,025
Southern California	32,771,845	31,730,720	34,895,399	32,912,802	32,835,541	32,693,413	32,230,643	33,702,816	34,939,709	34,785,030	33,437,989	35,082,491
Del Norte-Humboldt	291,724	291,978	309,637	283,614	289,346	275,315	268,766	309,590	321,791	355,905	270,933	276,295
Out of Area	36,464	34,652	40,036	35,414	60,243	66,192	64,604	79,078	65,405	66,368	60,931	65,603
State Totals	55,176,052	53,348,879	58,327,536	55,404,557	55,570,005	54,706,734	54,024,301	58,465,513	58,795,047	58,209,700	56,558,010	57,851,810

1/ Sales of market whole milk and lowfat milk to the Federal Government are included.

TABLE 29. SALES OF MARKET WHOLE MILK AND LOWFAT MILK IN CALIFORNIA, BY MARKETING AREAS, 1988 1/

Marketing Area	January	February	March	April	May	June	July	August	September	October	November	December
						(gallons)						
Northern California	18,111,004	17,401,346	18,938,987	18,148,663	18,481,031	17,875,462	17,701,283	18,909,155	19,031,443	18,566,150	18,407,151	18,378,518
South Valley	3,702,686	3,597,560	3,789,100	3,720,747	3,586,386	3,507,704	3,505,929	5,202,611	4,131,454	4,141,868	4,096,591	3,752,727
Southern California	32,251,478	31,163,469	34,170,066	32,272,828	32,337,653	32,119,204	31,699,253	33,192,973	34,403,127	34,249,118	32,923,516	34,573,955
Del Norte-Humboldt	291,512	291,768	309,373	283,374	289,148	275,081	268,496	309,332	321,491	355,653	270,669	275,947
Out of Area	36,464	34,652	40,036	35,414	60,243	66,192	64,604	79,078	65,405	66,368	60,931	65,603
State Totals	54,393,144	52,488,795	57,247,562	54,461,026	54,754,461	53,843,643	53,239,565	57,693,149	57,952,920	57,379,157	55,758,858	57,046,750

1/ Sales of market whole milk and lowfat milk to the Federal Government are not included. They are shown separately in Table 30.

TABLE 30. SALES OF MARKET WHOLE MILK AND LOWFAT MILK IN CALIFORNIA TO THE FEDERAL GOVERNMENT BY MARKETING AREAS, 1988

Marketing Area	January	February	March	April	May	June	July	August	September	October	November	December
						(gallons)						
Northern California	249,116	279,686	320,779	290,173	305,839	275,457	241,008	235,622	290,508	277,658	268,486	283,878
South Valley	13,213	12,937	33,598	13,144	11,619	13,191	12,068	26,641	14,737	15,523	15,929	12,298
Southern California	520,367	567,251	725,333	639,974	497,888	574,209	531,390	509,843	536,582	535,912	514,473	508,536
Del Norte-Humboldt	212	210	264	240	198	234	270	258	300	252	264	348
Out of Area												
State Totals	782,908	860,084	1,079,974	943,531	815,544	863,091	784,736	772,364	842,127	829,345	799,152	805,060

TABLE 31. SALES OF MARKET WHOLE MILK IN CALIFORNIA, BY MARKETING AREAS, 1988

Marketing Area	January	February	March	April	May	June	July	August	September	October	November	December
						(gallons)						
Northern California	8,628,252	8,307,327	9,019,575	8,638,649	8,806,668	8,737,270	8,860,970	9,454,292	9,127,232	8,711,151	8,725,912	8,802,639
South Valley	2,116,556	2,048,838	2,195,057	2,113,592	2,076,519	2,113,131	2,107,127	3,261,150	2,394,734	2,347,637	2,326,087	2,193,739
Southern California	18,583,933	17,997,190	19,794,564	18,658,991	18,534,819	18,719,173	18,745,448	19,824,235	19,881,558	19,549,539	18,811,890	19,817,873
Del Norte-Humboldt	142,030	141,098	149,459	133,017	141,625	139,050	139,096	160,600	162,902	172,052	134,086	138,108
Out of Area	18,848	17,889	21,000	18,199	30,395	32,642	32,714	38,839	32,420	32,880	29,794	32,306
State Totals	29,489,619	28,512,342	31,179,655	29,562,448	29,590,026	29,741,266	29,885,355	32,739,116	31,598,846	30,813,259	30,027,769	30,984,665

TABLE 32. SALES OF LOWFAT MARKET MILK IN CALIFORNIA, BY MARKETING AREAS, 1988

Marketing Area	January	February	March	April	May	June	July	August	September	October	November	December
						(gallons)						
Northern California	9,731,868	9,373,705	10,240,191	9,800,187	9,980,202	9,413,649	9,081,321	9,690,485	10,194,719	10,133,855	9,949,725	9,859,757
South Valley	1,599,343	1,561,659	1,627,641	1,620,299	1,521,486	1,407,764	1,410,870	1,968,102	1,751,457	1,809,754	1,786,433	1,571,286
Southern California	14,187,912	13,733,530	15,100,835	14,253,811	14,300,722	13,974,240	13,485,195	13,878,581	15,058,151	15,235,491	14,626,099	15,264,618
Del Norte-Humboldt	149,694	150,880	160,178	150,597	147,721	136,265	129,670	148,990	158,889	183,853	136,847	138,187
Out of Area	17,616	16,763	19,036	17,215	29,848	33,550	31,890	40,239	32,985	33,488	31,137	33,297
State Total	25,686,433	24,836,537	27,147,881	25,842,109	25,979,979	24,965,468	24,138,946	25,726,397	27,196,201	27,396,441	26,530,241	26,867,145

TABLE 33. SALES OF MARKET SKIM MILK IN CALIFORNIA, BY MARKETING AREAS, 1988

Marketing Area	January	February	March	April	May	June	July	August	September	October	November	December
						(gallons)						
Northern California	1,722,384	1,725,960	1,934,371	1,880,597	1,909,126	1,883,148	1,817,117	1,951,299	1,979,266	2,073,798	1,974,956	1,963,884
South Valley	220,435	202,646	239,921	228,723	229,880	229,089	223,575	311,259	256,504	258,370	254,173	240,002
Southern California	3,376,486	3,362,343	3,664,592	3,377,925	3,532,412	3,323,783	3,033,569	3,075,949	3,664,362	3,826,219	3,631,508	3,556,625
Del Norte-Humboldt	29,229	29,036	31,068	29,163	26,141	25,299	23,821	28,526	30,888	36,199	25,772	26,701
Out of Area	3,212	3,213	3,828	3,799	5,556	6,527	6,259	8,134	6,525	6,756	6,143	6,272
State Total	5,351,746	5,323,198	5,873,780	5,520,207	5,703,115	5,467,846	5,104,341	5,375,167	5,937,545	6,201,342	5,892,552	5,793,484

TABLE 34. SALES OF HALF-AND-HALF IN CALIFORNIA, BY MARKETING AREAS, 1988

Marketing Area	January	February	March	April	May	June	July	August	September	October	November	December
						(gallons)						
Northern California	375,813	365,782	401,713	375,540	399,756	394,763	380,755	413,954	386,707	416,804	403,387	434,250
South Valley	25,903	25,180	28,045	26,689	28,201	30,461	31,364	54,339	34,912	34,527	37,415	35,728
Southern California	487,090	461,832	518,647	470,862	425,393	489,985	456,104	483,763	483,159	504,953	557,167	602,958
Del Norte-Humboldt	4,447	4,623	5,181	5,019	4,823	4,916	5,206	5,853	5,670	6,037	4,817	5,261
Out of Area	1,303	1,412	1,659	1,522	1,968	2,271	2,203	2,582	2,145	2,179	2,180	2,153
State Total	894,556	858,829	955,245	879,632	860,141	922,396	875,632	960,491	912,593	964,500	1,004,966	1,080,350

TABLE 35. SALES OF CLASS 1 YOGURT IN CALIFORNIA, 1977-1988

Month	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
					(gallons)							
January	840,848	946,944	1,041,653	1,270,994	1,116,434	1,107,907	1,450,494	1,479,756	1,554,511	1,653,288	1,565,781	1,733,819
February	840,189	955,134	979,654	1,375,360	1,176,634	1,182,459	1,332,739	1,467,120	1,454,923	1,538,282	1,543,623	1,830,780
March	1,000,518	1,047,245	1,112,377	1,411,460	1,332,044	1,337,986	1,548,441	1,565,985	1,683,856	1,829,622	1,826,882	2,009,841
April	1,002,256	999,083	1,120,263	1,418,033	1,252,399	1,300,627	1,446,942	1,516,376	1,702,447	1,780,142	1,751,510	1,896,807
May	1,024,513	1,099,612	1,241,333	1,482,010	1,302,825	1,313,424	1,541,868	1,640,074	1,799,113	1,849,958	1,821,575	1,959,480
June	982,821	979,419	1,171,482	1,393,047	1,388,540	1,208,097	1,482,345	1,407,703	1,626,427	1,699,462	1,991,068	1,933,850
July	954,406	966,629	1,155,436	1,361,068	1,335,357	1,290,316	1,346,735	1,492,739	1,718,176	1,788,365	1,635,393	1,721,996
August	1,047,699	965,313	1,252,284	1,295,974	1,197,118	1,333,096	1,424,961	1,485,294	1,747,214	1,615,821	1,815,447	1,902,809
September	1,038,497	949,304	1,288,544	1,316,919	1,211,423	1,272,345	1,472,865	1,529,216	1,627,720	1,811,792	1,905,891	1,963,002
October	997,270	1,075,560	1,437,105	1,350,747	1,245,992	1,230,410	1,443,482	1,493,701	1,764,952	1,594,543	1,806,055	1,813,887
November	893,752	871,461	1,184,802	1,078,230	1,150,738	1,099,467	1,200,836	1,189,684	1,371,418	1,432,776	1,448,056	1,545,937
December	768,518	787,560	1,090,876	998,967	952,406	932,382	1,009,416	1,105,925	1,320,127	1,215,482	1,387,455	1,377,504
State Total	11,391,287	11,643,264	14,075,809	15,752,809	14,661,910	14,608,516	16,701,124	17,373,573	19,370,884	19,809,533	20,498,736	21,689,712

TABLE 36. SALES OF MARKET WHOLE MILK AND LOWFAT MILK IN CALIFORNIA, BY TYPE OF TRADE, 1971-1988

	Wholesale	Retail	Cash-and-Carry	Peddler	Federal Government	Total 1/
			(thousand gallons)			
1971	392,862	36,244	26,471	82,058	30,396	568,031
1972	416,564	31,096	24,880	89,512	30,628	592,680
1973	428,065	26,436	21,495	93,488	30,178	599,662
1974	439,995	16,668	18,779	96,472	27,973	599,887
1975	462,723	11,208	15,179	95,128	23,428	607,666
1976	488,481	8,610	12,141	101,974	21,683	632,889
1977	516,333	6,631	9,850	92,146	20,254	645,214
1978	538,073	5,534	8,607	83,983	18,077	654,274
1979	552,364	4,650	7,596	80,735	17,203	662,548
1980	552,691	2,814	6,509	76,682	16,245	654,941
1981	553,703	2,130	5,465	74,024	15,477	650,799
1982	545,833	1,978	4,491	72,842	15,340	640,484
1983	550,530	1,122	3,958	77,102	15,970	648,682
1984	557,736	1,162	3,495	79,273	15,725	657,391
1985	568,945	1,168	3,008	83,620	15,141	671,883
1986	564,256	950	2,334	84,007	19,179	670,727
1987	574,435	800	1,944	81,531	11,069	669,779
1988	560,782	708	1,616	103,154	10,178	676,437
1985						
January	48,167	99	283	6,846	1,369	56,764
February	44,851	100	247	6,364	1,267	52,829
March	48,366	114	258	6,948	1,374	57,060
April	47,392	117	256	6,899	1,297	55,961
May	48,226	119	262	7,394	1,325	57,327
June	43,975	105	243	5,818	1,203	51,345
July	47,389	89	253	7,144	1,289	56,164
August	48,872	83	262	7,006	1,192	57,415
September	47,316	91	240	6,980	1,177	55,803
October	50,302	86	225	7,559	1,260	59,432
November	48,236	84	234	7,336	1,243	57,134
December	45,852	80	245	7,326	1,144	54,647
1986						
January	48,678	86	215	7,234	1,618	57,831
February	44,285	74	187	6,446	1,320	52,313
March	47,628	84	208	6,803	1,646	56,369
April	46,718	83	209	6,950	1,560	55,520
May	47,715	80	207	7,285	1,534	56,822
June	44,551	71	194	6,827	1,378	53,022
July	45,872	73	197	7,331	1,506	54,979
August	47,033	68	197	7,284	1,493	56,075
September	47,255	86	197	7,507	1,664	56,710
October	49,405	98	174	6,862	1,804	58,343
November	46,681	70	169	6,539	1,858	55,317
December	48,432	75	179	6,940	1,799	57,426
1987						
January	48,893	70	166	6,844	1,133	57,105
February	44,436	64	156	6,433	987	52,077
March	50,110	76	172	6,997	981	58,336
April	45,568	73	171	7,056	1,107	53,975
May	47,118	74	159	6,632	1,236	55,220
June	47,793	71	154	6,584	868	55,470
July	47,425	70	164	6,650	903	55,212
August	46,852	61	157	6,658	660	54,389
September	49,324	62	164	6,964	767	57,281
October	51,190	64	171	7,171	889	59,485
November	46,195	56	159	6,723	736	53,870
December	49,531	59	150	6,818	801	57,358
1988						
January	47,527	50	140	6,676	783	55,176
February	45,451	59	150	6,828	860	53,349
March	48,057	67	158	8,965	1,080	58,328
April	45,835	59	133	8,434	944	55,404
May	46,099	60	132	8,463	816	55,570
June	45,315	63	134	8,333	863	54,707
July	44,753	54	127	8,305	785	54,024
August	48,148	59	127	9,360	772	58,466
September	48,037	56	128	9,731	842	58,795
October	47,765	58	137	9,418	829	58,208
November	46,347	60	122	9,229	799	56,558
December	47,447	62	128	9,410	805	57,852

1/ Monthly and annual totals have been derived from unrounded data; therefore, the sum of monthly data may not equal annual totals. The original unrounded data may be found in Tables 30, 37, 38, 39, 40, and 41.

TABLE 37. SALES OF MARKET WHOLE MILK AND LOWFAT MILK IN CALIFORNIA MARKETING AREAS, BY TYPE OF TRADE, 1988

Marketing Area	WHOLESALE	RETAIL	CASH-AND-CARRY	PEDDLER	FEDERAL GOVERNMENT	TOTAL
			(gallons)			
Northern California	186,472,280	41,185	31,418	33,405,310	3,318,210	223,268,403
South Valley	35,614,712	485,899	308,713	10,326,039	194,898	46,930,261
Southern California	335,554,859	178,158	1,265,983	58,357,640	6,661,758	402,018,398
Del Norte-Humboldt	2,625,131	2,795	8,876	905,042	3,050	3,544,894
Out of Area	514,930			160,060		674,990
State Totals	560,781,912	708,037	1,614,990	103,154,091	10,177,916	676,436,946

1/ Monthly detail for each of the trade types may be found in Tables 38, 39, 40, 41, and 30, respectively.

TABLE 38. WHOLESALE SALES OF MARKET WHOLE MILK AND LOWFAT MILK IN CALIFORNIA, BY MARKETING AREAS, 1988 1/

Marketing Area	January	February	March	April	May	June	July	August	September	October	November	December
							(gallons)					
Northern California	15,572,437	14,641,072	15,999,838	15,375,496	15,549,854	15,186,306	15,120,155	16,129,092	16,027,672	15,638,207	15,574,836	15,657,315
South Valley	2,851,683	2,749,247	2,884,354	2,836,373	2,736,445	2,694,658	2,686,851	4,080,239	3,090,438	3,104,733	3,093,768	2,805,923
Southern California	28,850,857	27,809,789	28,904,974	27,384,257	27,550,811	27,172,527	26,697,366	27,643,847	28,660,532	28,730,527	27,428,163	28,721,209
Del Norte-Humboldt	224,996	227,824	240,534	215,471	215,437	208,860	199,163	231,610	208,989	239,441	203,495	209,311
Out of Area	26,774	23,198	27,669	23,583	46,464	52,597	49,846	62,799	49,748	52,471	46,865	52,916
State Totals	47,526,747	45,451,130	48,057,369	45,835,180	46,099,011	45,314,948	44,753,381	48,147,587	48,037,379	47,765,379	46,347,127	47,446,674

1/ Sales to institutions, such as California correctional facilities, are included.

TABLE 39. RETAIL HOME-DELIVERED SALES OF MARKET WHOLE MILK AND LOWFAT MILK IN CALIFORNIA, BY MARKETING AREAS, 1988

Marketing Area	January	February	March	April	May	June	July	August	September	October	November	December
						(gallons)						
Northern California	3,770	3,645	3,820	3,675	3,560	3,400	3,275	3,120	3,260	3,325	3,190	3,145
South Valley	34,325	41,191	43,384	41,469	41,725	40,961	38,616	40,818	40,319	41,047	41,028	41,016
Southern California	11,766	14,376	19,671	13,604	13,900	18,240	11,999	14,596	12,555	14,008	15,975	17,468
Del Norte-Humboldt	272	235	222	200	409	220	183	197	232	218	209	198
Out of Area												
State Totals	50,133	59,447	67,097	58,948	59,594	62,821	54,073	58,731	56,366	58,598	60,402	61,827

TABLE 40. CASH-AND-CARRY SALES OF MARKET WHOLE MILK AND LOWFAT MILK IN CALIFORNIA, BY MARKETING AREAS, 1988

Marketing Area	January	February	March	April	May	June	July	August	September	October	November	December
						(gallons)						
Northern California	2,855	2,908	3,127	2,919	3,141	2,968	2,826	2,759	1,911	2,037	1,972	1,995
South Valley	29,394	28,050	28,370	25,358	27,552	19,698	20,492	22,465	30,061	28,531	21,713	27,029
Southern California	106,867	118,353	125,675	103,192	100,965	109,740	102,873	100,913	95,304	105,857	97,575	98,669
Del Norte-Humboldt	611	794	759	1,398	855	1,129	851	748	668	789	720	683
Out of Area												
State Totals	139,727	150,105	157,931	132,867	132,513	133,535	127,042	126,885	127,944	137,214	121,980	128,376

TABLE 41. PEDDLER SALES OF MARKET WHOLE MILK AND LOWFAT MILK IN CALIFORNIA, BY MARKETING AREAS, 1988

Marketing Area	January	February	March	April	May	June	July	August	September	October	November	December
						(gallons)						
Northern California	2,531,942	2,753,721	2,932,202	2,766,573	2,924,476	2,682,788	2,575,027	2,774,184	2,998,600	2,922,581	2,827,153	2,716,063
South Valley	787,284	779,072	832,992	817,547	780,664	752,387	759,970	1,059,089	970,636	967,557	940,082	878,759
Southern California	3,281,988	3,220,951	5,119,746	4,771,775	4,671,977	4,818,697	4,887,015	5,433,617	5,634,736	5,398,726	5,381,803	5,736,609
Del Norte-Humboldt	65,633	62,915	67,858	66,305	72,447	66,001	68,299	76,777	111,602	115,205	66,245	65,755
Out of Area	9,690	11,454	12,367	11,831	13,779	13,595	14,758	16,279	15,657	13,897	14,066	12,687
State Totals	6,676,537	6,828,113	8,965,165	8,434,031	8,463,343	8,333,468	8,305,069	9,359,946	9,731,231	9,417,966	9,229,349	9,409,873

MANUFACTURE OF DAIRY PRODUCTS

Approximately 229.0 million pounds of butter were manufactured in California during 1988. This was 6.4 percent more than 1987 and 64.8 percent more than the amount produced 10 years earlier in 1978.

The total manufacture of cheese other than cottage cheese in California during 1988 was approximately 546.5 million pounds. This production was 10.9 percent more than in 1987 and approximately four times greater than the amount produced 10 years earlier. Of the cheese manufactured in 1988 approximately 331.3 million pounds were whole-milk varieties and 215.2 million pounds were part-skim and full-skim varieties. Between 1987 and the year 1988, the manufacture of whole-milk cheese increased 6.6 percent and the manufacture of part- and full-skim cheese increased 18.2 percent. Table 46 presents the annual manufacture of cheese in California by major varieties for the time period 1978 through 1988.

During 1988, approximately 71.0 million pounds of dry curd cottage cheese were manufactured in California. The addition of creaming mixtures to this curd resulted in an output of 68.4 million pounds of cottage cheese and 56.8 million pounds of lowfat cottage cheese. The approximate combined total of 125.2 million pounds manufactured represents cottage cheese in the form in which most of it is consumed. Between 1987 and 1988, the manufacture of cottage cheese and lowfat cottage cheese combined decreased about 7.9 percent. Lowfat cottage cheese manufactured decreased 4.4 percent while the manufacture of cottage cheese decreased 10.6 percent.

During 1988 approximately 336.6 million pounds of bulk unsweetened condensed skim milk were manufactured. This was 37.5 percent more than was manufactured during 1987.

During 1988, approximately 279.3 million pounds of nonfat-dry-milk for human consumption and 2.1 million pounds of nonfat-dry-milk for animal feed were manufactured in California. This was a decrease of 2.9 percent from 1987 for nonfat-dry-milk for human consumption. Nonfat-dry-milk for animal feed decreased 17.1 percent from 1987.

Approximately, 10.3 million gallons of fluid buttermilk were manufactured in California during 1988. This was 5.7 percent more than the output during 1987.

The manufacture of frozen dairy products in California during 1988 included approximately 107.2 million gallons of ice cream, 39.9 million gallons of ice milk, 5.1 million gallons of sherbet, 0.2 million gallons of imitation ice cream, and 0.1 million gallons of imitation ice milk. The approximate total of 152.4 million gallons was 4.5 percent more than that manufactured during 1987. The previous figures do not include approximately 13.7 million gallons of frozen yogurt manufactured in California during 1988. From 1987 to 1988, the manufacture of ice cream decreased approximately 1.0 percent. During the same period the manufacture of ice milk increased 23.0 percent, the manufacture of sherbet increased 4.3 percent, the manufacture of imitation ice cream decreased 5.0 percent, and the manufacture of imitation ice milk was down 5.0 percent.

TABLE 42. MANUFACTURE OF BUTTER IN CALIFORNIA, BY MONTHS, 1978-1988

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
						(pounds)					
January	16,389,834	13,706,153	17,472,840	18,269,455	20,171,690	19,308,876	18,916,692	20,247,914	22,840,503	19,519,993	23,029,540
February	13,686,543	11,204,275	14,368,038	15,261,939	17,724,011	16,325,399	15,782,184	18,057,297	20,481,578	17,167,791	21,076,569
March	13,185,028	10,475,405	15,021,046	17,293,307	19,363,903	16,725,687	16,123,645	18,771,254	20,868,192	18,712,845	20,410,744
April	11,994,616	12,368,969	15,708,064	16,438,185	18,841,361	16,765,427	15,941,613	18,840,783	19,923,491	17,265,652	19,639,948
May	11,799,244	12,422,328	16,267,872	16,086,130	17,107,921	16,684,347	16,937,181	19,258,698	18,528,874	17,573,531	20,104,429
June	10,409,551	11,563,892	14,940,750	14,212,188	15,287,300	14,013,743	15,042,821	17,065,119	17,123,500	17,240,377	18,478,865
July	11,422,898	12,035,293	15,712,291	13,882,773	15,696,889	15,056,091	13,878,854	16,611,763	16,957,471	18,034,408	15,903,601
August	10,539,619	12,783,856	14,458,690	14,769,701	14,848,865	14,505,658	15,313,413	19,180,310	14,900,218	17,530,980	17,226,144
September	11,203,995	12,166,567	15,861,546	15,217,859	15,058,144	14,494,730	13,244,906	19,697,996	15,720,777	17,672,967	16,216,077
October	9,629,160	12,738,973	15,906,239	18,197,073	16,634,931	16,707,427	16,494,889	19,967,622	16,072,905	18,109,384	18,280,997
November	8,443,751	12,250,821	13,560,172	15,647,474	15,017,214	14,664,231	16,615,333	19,797,383	14,188,985	16,410,875	18,261,111
December	10,230,387	13,250,536	15,905,969	17,084,388	16,975,480	15,533,196	18,021,238	21,280,311	17,033,389	19,952,319	20,388,036
Total	138,934,626	146,967,068	185,183,517	192,360,472	202,727,709	190,784,812	192,312,769	228,776,450	214,639,883	215,191,122	229,016,061

TABLE 43. MANUFACTURE OF CHEESE IN CALIFORNIA, BY MONTHS, 1978-1988 1/

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
						(pounds)					
January	10,328,275	10,766,265	14,352,620	17,117,546	17,945,363	21,433,084	23,412,858	27,783,323	35,518,054	38,644,706	39,434,386
February	9,626,606	10,342,118	13,146,565	15,422,383	16,353,797	19,287,803	22,310,804	25,952,255	33,222,157	35,399,115	38,143,996
March	11,967,421	12,547,113	15,308,768	16,529,001	20,126,014	22,147,171	24,286,805	29,595,580	36,592,550	40,342,180	43,844,964
April	10,775,623	11,842,136	14,946,930	17,722,116	19,322,816	22,117,574	24,933,840	32,304,352	36,444,320	41,134,511	45,912,124
May	11,310,657	12,228,238	13,378,250	17,815,483	20,515,583	24,203,822	27,543,776	31,945,735	36,955,402	42,327,610	48,899,836
June	11,456,958	12,025,544	14,002,562	17,536,362	22,269,576	24,885,643	27,004,126	30,710,173	35,701,604	42,321,726	47,861,100
July	11,853,075	12,778,746	14,398,465	18,854,750	22,930,450	25,925,934	25,445,870	32,315,704	38,715,346	45,478,761	48,724,626
August	12,447,630	13,591,125	14,636,988	18,978,505	22,611,395	25,212,218	26,698,848	32,831,817	39,121,380	38,464,894	46,550,799
September	11,894,911	12,093,152	16,334,455	17,900,474	21,554,075	23,948,391	23,429,681	30,540,020	37,106,798	41,391,973	44,888,526
October	11,701,208	13,954,023	16,642,842	17,655,878	22,198,747	23,795,552	27,076,625	32,768,951	36,898,784	42,907,393	48,504,818
November	11,821,115	14,887,518	17,080,435	17,263,035	22,080,994	23,999,870	26,504,521	32,910,025	36,528,024	40,846,390	45,810,937
December	11,773,045	14,747,070	17,232,681	17,880,507	22,349,120	24,292,610	26,194,925	34,568,923	40,389,030	43,547,814	47,941,789
Total	136,956,524	151,803,048	181,461,561	210,676,040	250,257,930	281,249,672	304,842,679	374,226,858	443,193,449	492,807,073	546,517,901

1/ Cottage cheese is excluded.

TABLE 44. MANUFACTURE OF WHOLE MILK CHEESE IN CALIFORNIA, BY MONTHS, 1978-1988

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
	(pounds)										
January	3,103,047	3,294,742	5,793,911	7,405,476	10,219,835	12,323,899	13,545,434	13,709,958	21,792,975	24,348,719	22,599,823
February	3,040,349	3,441,575	5,332,701	6,861,335	9,381,816	10,743,409	13,226,268	13,569,044	19,700,379	22,209,750	22,301,591
March	4,226,157	4,467,087	6,273,763	7,658,588	9,511,834	13,174,356	14,428,949	18,178,109	22,142,151	25,227,559	27,149,565
April	3,368,812	4,162,377	6,577,656	7,946,504	8,783,492	13,105,931	15,054,122	20,544,017	22,736,710	26,385,588	29,834,228
May	3,898,227	4,100,322	6,988,406	7,940,171	11,875,399	14,175,483	15,311,570	20,782,704	23,162,234	27,673,293	30,308,061
June	3,867,179	4,359,996	7,447,266	8,290,020	12,414,808	15,079,106	15,528,032	20,415,143	22,353,013	27,437,352	29,871,641
July	3,728,329	4,422,971	7,779,555	10,393,659	12,739,109	15,709,965	12,586,684	21,420,746	24,646,667	29,654,032	28,917,724
August	4,015,751	4,559,802	6,785,922	10,685,986	12,512,398	14,877,643	12,697,427	21,838,890	24,311,414	22,294,656	27,559,116
September	3,841,589	4,261,523	7,061,751	10,014,976	12,167,025	13,914,406	11,506,013	19,949,805	22,022,676	25,954,696	27,298,034
October	4,011,264	5,796,295	6,479,511	9,734,609	12,896,818	13,161,473	13,830,166	21,825,776	23,202,166	26,537,686	28,653,723
November	4,335,231	6,730,691	7,141,578	10,296,183	12,853,260	14,352,878	13,315,210	21,283,182	22,769,931	26,231,200	27,351,192
December	3,984,139	6,327,398	7,043,474	10,029,239	12,750,256	14,266,908	13,040,628	22,762,933	25,241,997	26,744,834	29,440,205
Total	45,420,074	55,924,779	80,705,494	107,256,746	138,106,050	164,885,457	164,070,503	236,280,307	274,082,313	310,699,365	331,284,903

TABLE 45. MANUFACTURE OF PART-SKIM AND FULL-SKIM CHEESE IN CALIFORNIA, BY MONTHS, 1978-1988

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
	(pounds)										
January	7,225,228	7,471,523	8,558,709	9,712,070	7,725,528	9,109,185	9,867,424	14,073,365	13,725,079	14,295,987	16,834,563
February	6,586,257	6,900,543	7,813,864	8,561,048	6,971,981	8,544,394	9,084,536	12,383,211	13,521,778	13,189,365	15,842,405
March	7,741,264	8,080,026	9,035,005	8,870,413	10,614,180	8,972,815	9,857,856	11,417,471	14,450,399	15,114,621	16,695,399
April	7,406,811	7,679,759	8,369,274	9,775,612	10,539,324	9,011,643	9,879,718	11,760,335	13,707,610	14,748,923	16,077,896
May	7,412,430	8,127,916	6,389,844	9,875,312	8,640,184	10,028,339	12,232,206	11,163,031	13,793,168	14,654,317	18,591,775
June	7,589,779	7,665,548	6,555,296	9,246,342	9,854,768	9,806,537	11,476,094	10,295,030	13,348,591	14,884,374	17,989,459
July	8,124,746	8,355,775	6,857,433	8,461,091	10,191,341	10,215,969	12,859,186	10,894,958	14,068,679	15,824,729	19,806,902
August	8,431,879	9,031,323	7,612,543	8,292,519	10,098,997	10,334,575	14,001,421	10,992,927	14,809,966	16,170,238	18,991,683
September	8,053,322	7,831,629	9,272,704	7,885,498	9,387,050	10,033,985	11,923,668	10,590,215	15,084,122	15,437,277	17,590,492
October	7,689,944	8,157,728	10,163,331	7,921,269	9,301,929	10,634,079	13,246,459	10,943,175	13,696,618	16,369,707	19,851,095
November	7,485,884	8,156,827	9,938,857	6,966,852	9,227,734	9,646,992	13,189,311	11,626,843	13,758,093	14,615,190	18,459,745
December	7,788,906	8,419,672	10,189,207	7,851,268	9,598,864	10,025,702	13,154,297	11,805,990	15,147,033	16,802,980	18,501,584
Total	91,536,450	95,878,269	100,756,067	103,419,294	112,151,880	116,364,215	140,772,176	137,946,551	169,111,136	182,107,708	215,232,998

TABLE 46. MANUFACTURE OF CHEESE IN CALIFORNIA, BY VARIETIES, 1978-1988 1/

	Whole-Milk Cheese						Skim-Milk Cheese 2/	Total
	American Cheddar	Monterey	Cream	Italian	Other Varieties	All Varieties	All Varieties	
	(pounds)							
1978	6,104,926	9,240,999	9,489,692	19,430,775	1,153,682	45,420,074	91,536,450	136,956,524
1979	12,608,285	10,892,975	9,718,490	21,449,818	1,255,231	55,924,799	95,878,269	151,803,068
1980	36,421,283	11,284,408	7,170,170	24,402,956	1,426,677	80,705,494	100,756,067	181,461,561
1981	57,137,034	13,806,456	8,564,955	26,354,122	1,394,179	107,256,746	103,419,[illegible]4	210,676,040
1982	78,720,707	19,023,143	10,811,407	28,163,450	1,387,343	138,106,050	112,151,880	250,257,930
1983	84,747,859	25,067,086	11,183,010	42,543,960	1,343,542	164,885,457	116,364,215	281,249,672
1984	78,387,673	30,622,599	11,438,114	42,227,980	1,394,137	164,070,503	140,772,176	304,842,679
1985	132,295,557	35,342,073	12,752,380	54,234,023	1,656,274	236,280,307	137,946,551	374,226,858
1986	142,969,019	46,147,190	13,783,978	68,501,699	2,680,427	274,082,313	169,111,136	443,193,449
1987	169,740,621	48,735,588	12,774,515	76,272,142	3,176,499	310,699,365	182,107,708	492,807,073
1988	174,264,386	64,400,275	12,868,441	74,235,305	5,516,496	331,284,903	215,232,998	546,517,901

1/ Cottage cheese is excluded.

2/ All varieties of Part-Skim Cheese are included in this category.

TABLE 47. MANUFACTURE OF DRY CURD COTTAGE CHEESE IN CALIFORNIA, BY MONTHS, 1978-1988

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
	(pounds)										
January	8,555,193	8,553,584	8,388,650	8,316,490	7,435,377	7,374,644	6,883,741	7,859,972	8,1[illegible]74	7,493,404	6,495,969
February	8,048,785	7,692,518	8,100,555	7,564,786	6,955,977	6,760,261	6,773,418	7,176,630	7,360,197	6,989,169	6,190,365
March	9,127,474	9,124,044	8,786,304	8,423,881	8,102,337	7,645,925	7,386,701	8,018,124	8,462,908	7,825,336	7,111,673
April	8,766,513	8,407,773	8,650,741	8,486,280	7,623,330	7,549,011	7,259,495	8,104,307	8,694,627	7,924,823	6,332,502
May	9,521,989	9,175,161	8,742,730	9,102,668	8,026,146	7,501,383	7,562,864	8,441,392	8,810,373	8,012,736	6,883,640
June	8,960,525	8,682,715	8,494,076	9.119,751	7,630,116	7,287,505	7,826,679	8,171,787	8,701,485	8,074,917	5,776,767
July	8,498,589	8,550,961	9,016,215	8,997,098	7,651,955	7,118,641	8,734,169	8,670,577	9,446,761	7,994,174	5,730,807
August	9,048,073	8,962,626	8,932,936	8,444,538	7,662,961	7,409,483	8,535,710	8,204,047	8,826,275	7,741,568	6,155,374
September	8,750,809	8,637,639	8,224,678	7,864,806	7,362,107	6,965,640	8,197,329	7,704,525	8,442,9[illegible]	7,869,544	5,311,148
October	9,122,082	8,761,860	8,449,034	7,413,406	7,282,424	6,765,722	8,017,996	8,041,648	7,985,79[illegible]	7,785,686	5,229,058
November	7,892,489	7,344,452	7,823,489	7,117,964	6,340,007	6,236,695	6,721,421	6,932,514	6,904,004	6,734,635	5,026,646
December	7,164,394	7,528,050	7,279,978	6,624,347	5,997,343	5,730,292	6,782,989	6,936,939	6,565,788	6,423,697	4,806,447
Total	103,456,915	101,421,383	100,889,386	97,476,015	88,070,080	84,345,202	90,682,512	94,262,462	98,320,428	90,869,689	71,050,396

TABLE 48. MANUFACTURE OF LOWFAT COTTAGE CHEESE IN CALIFORNIA, BY MONTHS, 1978-1988 1/

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
					(pounds)						
January	3,764,804	3,843,544	4,061,641	4,209,653	4,006,481	4,361,457	4,075,219	4,769,052	5,058,551	4,939,375	4,746,379
February	3,488,713	3,495,923	3,883,595	3,878,860	3,861,500	3,931,079	4,167,623	4,439,162	4,678,793	4,628,933	4,658,779
March	4,096,729	4,135,972	4,180,645	4,402,320	4,518,937	4,501,084	4,542,858	4,919,888	5,407,589	5,041,107	5,233,784
April	3,903,565	3,936,209	4,286,549	4,475,300	4,324,553	4,477,603	4,571,611	4,968,274	5,529,747	5,094,740	4,712,257
May	4,361,463	4,411,876	4,338,204	4,929,638	4,439,553	4,572,122	4,681,761	5,101,446	5,508,657	5,312,388	5,219,021
June	4,003,132	3,976,245	4,332,653	4,749,096	4,161,630	4,382,668	4,810,423	5,030,199	5,536,837	5,323,952	4,778,604
July	3,692,613	3,996,987	4,646,651	4,675,398	4,415,952	4,213,732	5,222,969	5,167,430	5,912,917	5,205,631	4,900,471
August	3,897,303	4,100,634	4,391,793	4,272,917	4,293,888	4,400,662	5,187,659	4,966,729	5,603,242	5,054,301	5,318,377
September	3,817,076	3,950,592	4,145,787	4,209,363	4,138,996	4,217,897	4,815,229	4,753,338	5,416,779	5,133,100	4,547,286
October	3,945,632	4,084,960	4,314,793	4,065,081	4,067,088	4,069,631	4,771,114	5,000,485	5,045,226	5,089,450	4,227,553
November	3,520,483	3,473,883	3,762,716	3,857,898	3,658,666	3,553,680	3,994,259	4,262,015	4,482,687	4,563,041	4,292,340
December	3,155,652	3,382,094	3,535,297	3,578,737	3,408,023	3,336,305	3,992,690	4,242,828	4,083,666	3,996,955	4,147,351
Total	45,647,165	46,788,919	49,880,324	51,304,261	49,295,267	50,017,920	54,833,415	57,620,846	62,264,691	59,382,973	56,782,202

1/ Lowfat cottage cheese is partially creamed.

TABLE 49. MANUFACTURE OF COTTAGE CHEESE IN CALIFORNIA, BY MONTHS, 1978-1988

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
					(pounds)						
January	8,298,828	8,444,323	8,223,870	7,665,950	7,239,576	7,081,527	6,995,035	7,248,917	6,990,270	6,754,094	5,951,433
February	7,760,148	7,565,154	7,826,150	7,115,675	6,699,119	6,351,363	6,710,632	6,529,681	6,308,160	5,819,954	5,700,445
March	8,832,732	8,869,190	8,525,449	7,902,243	7,708,171	7,229,474	7,221,711	7,053,521	7,216,297	6,699,180	6,486,413
April	8,437,073	8,380,940	8,342,269	7,830,824	7,205,769	7,019,945	7,139,835	7,268,690	7,301,914	6,645,985	5,879,395
May	9,193,496	8,879,447	8,289,668	8,259,049	7,567,194	7,476,893	7,354,656	7,528,354	6,686,421	6,794,888	6,384,513
June	8,809,945	8,604,792	8,205,420	8,255,515	7,200,281	7,127,575	7,249,677	6,981,019	6,940,685	6,789,426	5,514,072
July	8,496,558	8,718,928	8,548,389	8,220,776	7,257,056	7,100,718	8,225,073	7,609,461	7,659,068	6,738,568	5,883,890
August	8,779,886	8,854,460	8,530,618	7,800,747	7,468,767	7,554,627	7,682,935	7,205,623	7,154,667	6,490,772	6,338,965
September	8,407,266	8,518,996	7,891,790	7,605,910	7,247,078	7,039,973	7,517,945	6,681,393	6,764,414	6,558,222	5,350,697
October	8,969,546	8,595,947	8,200,186	7,341,109	7,227,101	6,960,590	7,454,402	6,935,183	6,578,934	6,357,330	4,985,760
November	7,769,617	7,523,897	7,302,111	7,053,774	6,396,579	6,508,451	6,407,086	6,023,191	6,120,631	5,569,474	5,006,040
December	6,980,292	7,477,502	6,762,964	6,598,175	6,045,935	5,838,795	6,252,725	5,918,701	5,969,353	5,356,298	4,972,349
Total	100,735,387	100,433,576	96,648,884	91,649,747	85,262,626	83,289,931	86,211,712	82,983,734	81,690,814	76,574,191	68,453,972

TABLE 50. MANUFACTURE OF COTTAGE CHEESE AND LOWFAT COTTAGE CHEESE IN CALIFORNIA, BY MONTHS, 1978-1988

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
						(pounds)					
January	12,063,632	12,287,867	12,285,511	11,875,603	11,246,057	11,442,984	11,070,254	12,017,969	12,048,321	11,693,469	10,697,812
February	11,248,861	11,061,077	11,709,745	10,994,535	10,560,619	10,282,442	10,878,255	10,968,843	10,986,953	10,448,887	10,359,224
March	12,929,461	13,005,162	12,706,094	12,304,563	12,227,108	11,730,558	11,764,569	11,973,409	12,623,886	11,740,287	11,720,197
April	12,340,638	12,317,149	12,628,818	12,306,124	11,530,322	11,497,548	11,711,446	12,236,964	12,831,661	11,740,725	10,591,652
May	13,554,959	13,291,323	12,627,872	13,188,687	12,006,747	12,049,015	12,036,417	12,629,800	12,195,078	12,107,276	11,603,534
June	12,813,077	12,581,037	12,538,073	13,004,611	11,361,911	11,510,243	12,060,100	12,011,218	12,477,522	12,113,378	10,292,676
July	12,189,171	12,715,915	13,195,040	12,896,174	11,673,008	11,314,450	13,448,042	12,776,891	13,571,985	11,944,199	10,784,361
August	12,677,189	12,955,094	12,922,411	12,073,664	11,762,655	11,955,289	12,870,594	12,172,352	12,757,909	11,545,073	11,657,342
September	12,224,342	12,469,588	12,037,577	11,815,273	11,386,074	11,257,870	12,333,174	11,434,731	12,181,193	11,691,322	9,897,983
October	12,915,178	12,680,907	12,514,979	11,406,190	11,294,189	11,030,221	12,225,516	11,935,668	11,624,160	11,446,780	9,213,313
November	11,290,100	10,997,780	11,064,827	10,911,672	10,055,245	10,062,131	10,401,345	10,285,206	10,603,318	10,132,515	9,298,380
December	10,135,944	10,859,596	10,298,261	10,176,912	9,453,958	9,175,100	10,245,415	10,161,529	10,053,019	9,353,253	9,119,700
Total	146,382,552	147,222,495	146,529,208	142,954,008	134,557,893	133,307,851	141,045,127	140,604,580	143,955,505	135,957,164	125,236,174

TABLE 51. MANUFACTURE OF UNSWEETENED CONDENSED SKIM MILK IN CALIFORNIA, BY MONTHS, 1978-1988 1/

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
						(pounds)					
January	9,268,658	8,584,679	9,476,052	9,868,071	9,208,647	12,952,059	12,513,337	12,336,086	19,891,435	17,873,999	22,911,877
February	7,214,443	7,120,651	9,711,197	9,459,283	8,319,233	9,595,845	12,872,177	10,981,191	17,414,306	17,768,462	22,984,355
March	8,853,721	8,760,017	10,154,329	9,388,627	11,687,943	11,256,307	14,543,532	13,750,049	19,140,899	22,123,742	26,401,446
April	8,659,040	8,655,491	10,989,971	10,700,235	11,045,774	11,716,635	17,037,066	17,123,742	17,158,598	19,788,170	28,145,394
May	9,058,303	9,639,221	11,671,242	9,812,147	16,154,701	14,202,202	14,812,570	19,968,072	18,063,590	19,960,642	28,132,596
June	10,009,188	9,246,262	12,146,707	10,418,619	15,524,990	15,564,762	14,327,669	17,189,819	19,699,515	21,210,804	27,466,336
July	9,853,672	11,642,227	12,311,181	11,349,757	10,831,618	15,739,444	16,596,966	21,471,421	17,806,731	20,608,985	29,983,950
August	10,103,618	11,964,264	12,401,967	10,236,911	14,143,380	15,478,554	16,355,272	23,294,595	17,367,862	20,584,338	30,726,410
September	8,857,169	9,834,736	11,008,721	9,523,691	13,029,751	15,211,243	13,496,826	21,926,378	17,028,439	22,206,856	30,598,134
October	9,863,190	11,297,223	10,517,682	10,294,324	12,724,473	14,143,687	14,810,752	22,270,926	15,437,417	23,723,487	33,445,780
November	9,065,406	9,362,524	10,300,488	10,949,862	11,120,135	14,324,952	14,303,830	17,567,424	18,134,816	19,897,657	27,971,096
December	8,692,871	10,396,026	10,345,447	10,981,930	11,308,766	13,631,586	13,122,914	17,709,979	18,893,074	19,013,804	27,835,536
Total	109,499,279	116,503,321	131,034,984	122,983,457	145,099,411	163,817,276	174,792,911	215,589,682	216,036,682	244,760,946	336,602,910

1/ Bulk goods.

TABLE 52. MANUFACTURE OF NONFAT-DRY-MILK IN CALIFORNIA FOR HUMAN CONSUMPTION, BY MONTHS, 1978-1988

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
					(pounds)						
January	12,884,450	8,962,224	15,454,077	18,455,445	22,994,664	21,424,183	20,650,067	19,473,210	24,491,257	19,416,498	22,912,498
February	11,016,653	8,304,622	14,475,250	17,534,087	21,590,016	16,494,334	19,677,973	24,197,510	22,497,310	18,396,345	24,040,029
March	11,648,330	11,524,576	16,033,128	21,114,324	24,702,566	20,576,912	23,457,246	25,407,116	25,463,766	22,470,005	25,251,825
April	13,698,670	15,928,614	20,152,911	22,446,860	23,931,326	23,146,591	25,136,846	26,462,167	24,986,688	24,732,009	26,433,960
May	14,977,989	18,559,318	24,481,766	23,613,380	25,796,772	24,911,807	27,514,427	30,411,594	26,375,179	27,892,739	25,976,379
June	16,111,259	19,938,666	24,520,792	22,519,106	24,420,992	25,622,979	26,087,558	29,366,705	26,553,435	27,675,221	26,739,679
July	18,201,082	20,903,488	25,803,776	23,801,328	25,471,509	27,128,242	23,876,337	28,813,957	25,772,962	29,965,187	24,644,338
August	15,872,671	20,696,740	23,783,065	23,490,570	24,560,029	24,292,875	25,094,311	30,051,996	21,850,892	28,299,888	23,330,935
September	12,268,126	17,022,984	20,647,326	21,878,667	21,893,654	19,967,215	18,303,500	26,747,219	18,447,174	22,923,145	19,103,379
October	10,186,067	16,358,759	19,929,656	23,815,803	22,116,181	22,674,789	20,467,633	25,260,231	18,184,141	22,464,815	19,682,067
November	9,446,170	15,056,120	17,652,461	21,334,319	20,008,441	20,233,197	20,259,359	23,336,546	18,516,222	20,723,150	19,321,620
December	10,586,351	15,189,768	19,682,429	23,271,639	22,111,699	20,623,356	21,313,002	25,318,978	20,802,168	22,803,420	21,908,811
Total	156,897,818	188,445,879	242,616,637	263,275,528	279,597,849	267,096,480	271,838,259	314,847,229	273,941,194	287,762,422	279,345,520

TABLE 53. MANUFACTURE OF NONFAT-DRY-MILK IN CALIFORNIA FOR ANIMAL FEED, BY MONTHS, 1978-1988

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
					(pounds)						
January	85,559	58,359	86,577	134,919	137,936	150,742	118,161	116,678	208,432	275,371	167,576
February	91,792	56,539	100,878	94,365	119,782	108,078	106,731	145,746	140,407	126,914	165,880
March	89,570	64,650	133,266	154,188	135,077	88,087	123,516	104,004	149,367	148,539	185,297
April	90,652	86,380	99,863	126,439	192,902	131,393	149,804	127,890	179,125	160,621	203,430
May	101,778	118,655	133,522	148,126	235,174	132,764	190,918	148,230	187,910	163,801	214,450
June	98,670	106,576	155,472	180,054	233,343	126,088	129,288	162,840	219,754	270,000	211,849
July	145,775	150,033	154,648	210,961	172,949	203,572	155,934	147,594	197,933	206,923	192,858
August	96,819	152,431	132,554	138,140	190,686	187,312	170,482	178,765	316,475	237,716	294,726
September	88,036	107,556	183,154	186,125	186,563	112,363	135,904	144,530	154,521	301,386	123,107
October	78,788	120,645	137,595	167,370	105,243	88,082	113,953	147,830	191,790	258,749	95,280
November	83,432	96,416	127,027	174,985	95,564	90,130	112,093	173,355	273,845	211,648	97,600
December	85,563	108,413	143,926	268,310	125,667	119,429	76,233	130,642	312,735	171,457	148,346
Total	1,136,434	1,226,653	1,588,482	1,983,982	1,930,886	1,538,040	1,583,017	1,728,104	2,532,294	2,533,125	2,100,399

TABLE 54. MANUFACTURE OF BUTTERMILK IN CALIFORNIA, BY MONTHS, 1978-1988

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
						(gallons)					
January	1,003,433	973,150	903,952	873,549	781,913	784,464	848,653	850,679	898,179	792,185	809,380
February	936,289	898,208	858,367	825,838	759,541	735,449	767,272	779,741	789,640	748,776	824,402
March	1,093,092	984,272	893,810	933,728	870,579	868,205	819,708	852,715	908,415	844,434	912,301
April	1,017,698	932,276	907,591	909,652	816,974	778,503	807,962	837,771	926,308	820,012	830,947
May	1,090,987	993,324	898,227	895,733	840,898	855,764	863,943	865,402	924,560	836,126	907,411
June	1,056,935	943,424	917,105	928,336	816,702	830,023	772,195	839,310	896,476	820,708	860,466
July	1,053,947	957,338	918,719	947,983	819,431	816,324	876,722	899,283	952,732	828,201	856,207
August	1,058,664	1,007,482	942,759	877,717	841,283	876,953	937,901	845,673	947,328	827,148	918,329
September	985,881	963,164	894,562	894,058	803,430	825,039	868,910	852,680	870,226	807,286	859,217
October	1,034,174	937,489	917,431	829,179	797,110	792,457	868,444	882,055	880,739	814,249	835,464
November	944,796	868,360	855,771	840,167	788,075	849,820	852,535	813,112	788,533	814,030	853,799
December	892,031	882,432	868,261	821,168	788,984	829,796	840,160	850,341	843,025	788,897	832,857
Total	12,167,927	11,340,919	10,776,555	10,577,108	9,724,920	9,842,797	10,124,405	10,168,762	10,626,161	9,742,052	10,300,780

TABLE 55. MANUFACTURE OF ICE CREAM IN CALIFORNIA, BY MONTHS, 1978-1988

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
						(gallons)					
January	5,835,485	6,350,980	6,247,041	6,205,235	6,369,178	6,217,188	6,931,142	7,917,179	8,378,507	7,258,921	6,649,753
February	5,926,463	6,307,557	6,983,138	6,603,166	6,598,596	7,131,544	7,989,726	7,681,586	7,734,913	8,011,634	8,326,431
March	7,828,013	7,712,701	7,770,253	7,897,802	8,521,556	9,109,709	9,249,867	8,398,994	9,161,477	9,184,544	10,116,585
April	7,151,847	7,345,798	7,669,571	7,622,194	7,856,208	7,976,684	8,799,618	9,334,477	9,455,320	10,251,781	9,254,920
May	8,044,078	8,075,767	7,759,459	7,996,749	8,341,210	8,374,678	10,040,751	10,257,210	10,183,061	9,754,108	9,502,465
June	9,190,663	8,743,310	8,475,633	9,638,159	9,533,305	10,485,562	10,243,651	10,737,742	9,842,718	10,062,008	10,539,280
July	8,506,610	8,642,687	9,482,641	10,381,126	9,417,652	9,759,724	10,695,734	11,974,076	10,988,546	10,586,026	10,234,067
August	9,151,216	9,285,620	9,314,616	9,070,995	9,674,414	10,839,800	11,087,596	10,588,741	10,020,907	10,196,775	11,082,387
September	6,945,402	7,356,422	7,449,444	8,319,800	8,794,146	9,455,822	9,336,604	8,990,192	9,133,681	9,286,900	9,351,222
October	7,713,146	8,009,799	7,708,245	7,207,262	7,241,206	7,618,126	9,059,391	8,921,683	7,994,974	8,623,934	7,665,643
November	6,655,471	6,121,780	5,712,745	6,527,797	6,769,825	7,242,970	6,774,638	5,714,422	6,836,634	7,099,801	7,256,564
December	5,282,815	5,156,936	6,140,630	6,709,143	6,121,166	6,856,013	6,478,330	6,216,284	7,425,337	7,969,685	7,193,515
Total	88,231,209	89,109,357	90,713,416	94,179,428	95,238,462	101,067,820	106,687,048	106,732,586	107,156,075	108,286,117	107,172,832

TABLE 56. MANUFACTURE OF ICE MILK IN CALIFORNIA, BY MONTHS, 1978-1988

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
	(gallons)										
January	1,782,391	1,877,067	1,872,419	1,881,620	1,809,087	1,679,849	1,892,987	1,942,166	2,375,996	2,076,450	2,250,053
February	2,012,162	1,904,318	2,001,004	1,981,683	1,952,525	1,838,821	2,026,118	2,145,968	2,103,954	2,171,890	2,857,237
March	2,469,702	2,425,873	2,346,037	2,283,809	2,328,022	2,249,443	2,487,987	2,380,536	2,668,168	2,764,937	3,454,062
April	2,322,322	2,301,330	2,335,254	2,551,102	2,378,287	2,113,932	2,333,752	2,688,122	2,685,285	3,130,200	3,202,766
May	2,933,525	2,629,670	2,552,836	2,527,268	2,571,628	2,652,139	2,839,864	2,830,223	3,070,257	2,840,475	3,660,689
June	2,958,212	2,740,882	2,622,433	2,977,307	2,660,004	2,720,504	2,810,004	2,893,439	2,929,222	3,185,772	3,836,953
July	2,770,006	2,788,345	2,936,872	2,960,275	2,787,994	2,702,191	3,098,789	3,364,606	3,182,100	3,293,230	3,911,532
August	3,008,282	2,802,117	2,843,620	2,595,438	2,831,783	2,977,533	3,110,557	3,168,798	3,189,573	3,040,288	4,466,524
September	2,383,569	2,509,214	2,708,163	2,486,816	2,452,936	2,638,887	2,610,466	2,752,722	2,630,624	2,752,430	3,391,383
October	2,509,024	2,496,452	2,488,298	2,173,617	2,267,901	2,391,954	2,447,702	2,699,350	2,548,004	2,534,032	3,270,743
November	2,119,654	2,119,034	1,899,994	1,915,522	1,928,209	1,964,902	2,022,987	2,048,130	2,167,292	2,251,603	3,018,006
December	1,733,465	1,822,970	2,149,025	2,042,557	1,761,571	1,913,665	1,880,304	2,087,025	2,087,242	2,372,819	2,545,158
Total	29,002,314	28,417,272	28,755,955	28,377,014	27,729,947	27,843,820	29,561,517	31,001,085	31,637,717	32,414,126	39,865,106

TABLE 57. MANUFACTURE OF SHERBET IN CALIFORNIA, BY MONTHS, 1978-1988

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
	(gallons)										
January	349,157	383,318	364,749	311,770	347,199	300,390	306,581	398,869	402,444	338,561	253,460
February	313,724	329,255	336,516	349,817	293,585	313,134	363,646	329,165	315,926	333,591	345,678
March	462,368	456,522	385,572	401,241	412,352	376,730	419,227	402,680	358,755	406,741	469,156
April	404,669	381,212	451,686	376,517	397,404	386,881	421,254	464,430	460,701	518,877	481,226
May	523,444	489,162	437,732	447,270	443,050	427,181	470,362	486,554	434,961	478,601	430,424
June	614,240	593,302	438,194	552,303	483,359	522,594	523,115	532,711	476,188	475,656	531,237
July	520,876	549,096	609,372	674,031	462,494	466,175	564,490	641,028	554,145	483,290	476,543
August	532,562	546,676	553,245	459,737	534,173	549,806	535,337	496,611	496,882	457,119	651,938
September	392,661	422,243	367,276	464,936	467,853	450,009	475,975	401,564	366,358	393,557	434,406
October	497,272	465,705	416,086	328,654	320,424	349,525	379,263	369,177	291,457	387,374	396,516
November	355,030	329,777	289,340	260,100	297,396	329,927	311,823	236,553	246,300	285,024	322,650
December	265,793	241,448	365,870	325,359	287,516	282,559	278,308	226,502	313,678	337,329	311,911
Total	5,231,796	5,187,716	5,015,638	4,951,735	4,746,805	4,754,911	5,049,381	4,985,844	4,717,795	4,895,720	5,105,145

CONSUMPTION AND MANUFACTURE PER CAPITA OF DAIRY PRODUCTS

The population of California on July 1, 1988 was estimated by the California Department of Finance to be 28,314,500. This represented an approximate increase of 652 thousand persons or 2.4 percent from the same date a year earlier.

Although no data are collected which directly relate to the consumption of dairy products in California, the quantities of some products either sold or manufactured in California represent reasonably well the quantities of these dairy products consumed in the State. These are products which for the most part are neither imported nor exported in significant amounts and which are not storable for any extended period of time. Products that have these characteristics and for which sales data are available are: fluid whole and lowfat milk, fluid skim milk, yogurt, half-and-half, and miscellaneous Class 1 products. The quantities of manufactured products produced in this State which may be assumed to represent those consumed here are limited to cottage cheese, buttermilk, and frozen products.

The sales of various dairy products and the manufacture of selected processed dairy products are expressed in either quarts per capita or pounds per capita in Table 62. Population figures used are those shown in the first column of the Table. All per capita estimates have been derived from unrounded data.

Per capita sales of all Class 1 dairy products in California during 1988 amounted to 109.86 quarts. This total of 109.86 included: 95.56 quarts of fluid whole and lowfat milk, 9.50 quarts of skim milk, 3.18 quarts of yogurt and miscellaneous Class 1 products, and 1.58 quarts of half-and-half. Valid comparisons of the per capita sales of these times for 1974 and later cannot be made with data for 1973 and earlier due to product reclassifications and changes in reporting procedures. For example, fluid creams are no longer Class 1 products while yogurt is a Class 1 product. Flavored dairy drinks are now included with either fluid whole milk, fluid lowfat milk, for fluid skim milk, depending on the fat content of the flavored dairy drink reported.

In 1988, manufacture per capita of creamed and lowfat cottage cheese in California totaled 4.42 pounds, a decrease of 10.0 percent from 1987. Creamed cottage cheese accounted for 2.42 pounds per capita, and lowfat cottage cheese accounted 2.00 pounds per capita. Between 1987 and 1988, the manufacture per capita of creamed cottage cheese decreased 12.6 percent and the manufacture per capita of lowfat cottage cheese decreased 7.0 percent.

During 1988, the manufacture per capita of buttermilk in California amounted to 1.46 quarts. This approximated an increase of 3.5 percent from the manufacture per capita existing during 1987.

Manufacture per capita of all frozen products in California during 1988 totaled 21.53 quarts, an increase from 1987 of 2.1 percent. The manufacture per capita of all frozen products included 15.14 quarts of ice cream, 5.63 quarts of ice milk, 0.72 quarts of sherbet, 0.02 quarts of imitation ice cream, and 0.02 quarts of imitation ice milk. Between 1987 and 1988, the manufacture per capita estimates for the various frozen dairy products indicate that both ice milk and sherbet experienced an increase. Ice cream exhibited a 3.3 percent decrease. Ice milk and sherbet were characterized by a 20.0 and 1.4 percent increase respectively. The manufacture per capita of imitation ice cream and imitation ice milk remained approximately the same.

TABLE 62. ESTIMATED CONSUMPTION AND MANUFACTURE PER CAPITA OF SELECTED DAIRY PRODUCTS IN CALIFORNIA, BY YEARS, 1971-1988 1/

		Class 1 Product Sales Per Capita							
Year	Estimated July 1 Population	Total	Fluid Milk	Fluid Skim Milk	Flavored Dairy Drink	Half and Half	Yogurt and Misc.	Fluid Cream Sour	Fluid Cream Other
	(Thousands)	-(Quarts)-							
1971	20,346	123.60	111.99	7.12	1.94	1.66	in Class 1	0.71	0.18
1972	20,585	127.60	115.44	7.72	1.99	1.57	Products	0.70	0.17
1973	20,868	127.49	115.20	7.96	1.88	1.56	Until 1974	0.72	0.16
1974	21,173	126.10	113.62	8.24	2/	1.55	2.68	4/	
1975	21,537	126.07	113.17	8.59		1.52	2.78		
1976	21,935	127.91	115.67	8.49		1.55	2.21 3/		
1977	22,350	127.85	115.62	8.47		1.54	2.21		
1978	22,839	126.50	114.68	8.07		1.59	2.16		
1979	23,255	125.86	114.00	7.75		1.61	2.50		
1980	23,771	122.07	110.26	7.52		1.58	2.71		
1981	24,210	118.90	107.55	7.30		1.59	2.45		
1982	24,722	114.44	103.63	6.86		1.57	2.37		
1983	25,152	114.23	103.16	6.80		1.60	2.66		
1984	25,576	114.71	102.81	7.41		1.76	2.72		
1985	26,365	114.73	101.94	7.99		1.81	2.99		
1986	26,846	113.06	99.94	8.36		1.74	3.02		
1987	27,663	110.13	96.85	8.64		1.58	3.06		
1988	28,314	109.86	95.56	9.50		1.58	3.18		

CONTINUED....

TABLE 62. ESTIMATED CONSUMPTION AND MANUFACTURE PER CAPITA OF SELECTED DAIRY PRODUCTS IN CALIFORNIA, BY YEARS, 1971-1988 - CONTINUED

	Manufacture Per Capita									
					Frozen Products					
									Imitation	
	Cottage Cheese			Fluid		Ice	Ice		Ice	Ice
Year	Total	Creamed	Lowfat	Buttermilk	Total	Cream	Milk	Sherbet	Cream	Milk
	(Pounds)			(Quarts)	(Quarts)					
1971	8.32	6.65	1.67	2.96	23.30	14.28	5.58	1.15	1.00	1.29
1972	8.22	6.32	1.89	2.93	23.41	14.50	5.59	1.18	0.92	1.21
1973	7.83	5.80	2.03	2.76	22.58	14.18	5.39	1.14	0.88	0.99
1974	7.06	5.15	1.91	2.47	23.34	15.16	5.44	1.16	0.76	0.80
1975	6.71	4.79	1.92	2.38	23.49	15.74	5.42	1.07	0.66	0.59
1976	6.85	4.88	1.98	2.46	22.90	15.83	4.96	1.16	0.48	0.47
1977	6.56	4.63	1.93	2.28	22.06	15.28	5.03	1.02	0.39	0.34
1978	6.41	4.41	2.00	2.13	22.05	15.45	5.08	0.92	0.34	0.26
1979	6.33	4.32	2.01	1.95	21.58	15.33	4.89	0.89	0.27	0.20
1980	6.16	4.06	2.10	1.81	21.33	15.26	4.84	0.84	0.22	0.16
1981	5.90	3.78	2.12	1.74	21.36	15.56	4.69	0.82	0.16	0.13
1982	5.44	3.45	1.99	1.57	20.85	15.41	4.49	0.77	0.10	0.09
1983	5.30	3.31	1.99	1.56	21.38	16.07	4.43	0.76	0.06	0.07
1984	5.51	3.37	2.14	1.58	22.20	16.68	4.62	0.79	0.04	0.07
1985	5.33	3.15	2.19	1.54	21.74	16.19	4.70	0.76	0.03	0.06
1986	5.36	3.04	2.32	1.58	21.42	15.96	4.71	0.70	0.02	0.02
1987	4.91	2.77	2.15	1.41	21.09	15.66	4.69	0.71	0.02	0.02
1988	4.42	2.42	2.00	1.46	21.53	15.14	5.63	0.72	0.02	0.02

1/ Estimates have been computed from unrounded data.

2/ Subsequent to 1973, flavored dairy drink sales have been categorized as either flavored fluid milk or flavored fluid skim milk sales depending on fat content.

3/ Subsequent to 1975, out-of-state yogurt sales have been excluded from Class 1 product sales.

4/ Subsequent to 1973, fluid cream sales have been excluded from Class 1 product sales.

MINIMUM PRICES

As specified in Division 21, Part 3, Chapter 2 of the Food and Agricultural Code of the State of California, the Milk Stabilization Branch establishes minimum prices to be paid to producers by handlers for market milk used in the various usage classifications for each marketing area in the State.

Commencing August 1, 1978, minimum Class 1 prices were established by means of a mathematical formula. The factors used in the formula and their respective weights have been the following: cost of production, 43 percent; Class 4 price, 42 percent; and real net spendable earnings, 15 percent. Effective August 1, 1982, the real net spendable earnings factor was permanently replaced by an average weekly earnings factor. This change in the formula was made because of the unavailability of the real net spendable earnings factor.

The Class 2 and 3 prices have traditionally (since September 22, 1965) been set by applying positive differentials to the Class 4 price.

The Class 4a component prices for fat and solids-not-fat are and have since September 22, 1965, been established by subtracting make allowances from the finished product prices of butter and nonfat dry milk respectively.

Since its establishment on August 1, 1982, the Class 4b price has been set equal to the Class 4a price until September 1, 1988, when the Class 4b price was set at 4.52 cents per hundredweight less than the Class 4a price. On January 1, 1989, a "cheese mover" was incorporated into the formula for the Class 4b price. This price is now equal to the larger of either a base price or the base price times the ratio of the commercial price to the USDA support purchase price for cheese.

The Milk Stabilization Branch of the Department of Food and Agriculture calculates the Class 1 prices bimonthly and the Class 2, 3, 4a, and 4b prices monthly. All prices are subject to change as a result of public hearings.

Minimum class prices in effect during 1988 are shown in Tables 63 through 66.

TABLE 63. MINIMUM PRODUCER PRICES IN CALIFORNIA FOR MARKET MILK USED TO PRODUCE CLASS 1 PRODUCTS, BY MARKETING AREAS, 1988

		PRODUCER PRICES, F.O.B. PROCESSING PLANT				
Time Period	Marketing Area	Component Basis			Whole Milk Basis 1/	Weighted Average Basis 2/
		Fat	SNF	Fluid		
		($/Lb.)			($/Cwt.)	($/Cwt.)
January	Del Norte-Humboldt	1.4047	0.7143	0.0126	12.24	12.00
	Northern California	1.3997	0.7143	0.0098	11.97	
	South Valley	1.3997	0.7143	0.0080	11.82	
	Southern California	1.4047	0.7143	0.0123	12.21	
February and March	Del Norte-Humboldt	1.4054	0.7146	0.0127	12.25	12.02
	Northern California	1.4004	0.7146	0.0099	11.99	
	South Valley	1.4004	0.7146	0.0081	11.83	
	Southern California	1.4054	0.7146	0.0124	12.22	
April and May	Del Norte-Humboldt	1.3878	0.7075	0.0123	12.09	11.86
	Northern California	1.3828	0.7075	0.0095	11.83	
	South Valley	1.3828	0.7075	0.0077	11.67	
	Southern California	1.3878	0.7075	0.0120	12.07	
June and July	Del Norte-Humboldt	1.3926	0.7094	0.0124	12.13	11.90
	Northern California	1.3876	0.7094	0.0096	11.87	
	South Valley	1.3876	0.7094	0.0078	11.71	
	Southern California	1.3926	0.7094	0.0121	12.11	
August and September	Del Norte-Humboldt	1.3700	0.7004	0.0120	11.94	11.71
	Northern California	1.3650	0.7004	0.0092	11.68	
	South Valley	1.3650	0.7004	0.0074	11.52	
	Southern California	1.3700	0.7004	0.0117	11.92	
October and November	Del Norte-Humboldt	1.3793	0.7041	0.0121	12.02	11.78
	Northern California	1.3743	0.7041	0.0093	11.75	
	South Valley	1.3743	0.7041	0.0075	11.59	
	Southern California	1.3793	0.7041	0.0118	11.99	
December	Del Norte-Humboldt	1.4379	0.7277	0.0133	12.53	12.30
	Northern California	1.4329	0.7277	0.0105	12.27	
	South Valley	1.4329	0.7277	0.0087	12.11	
	Southern California	1.4379	0.7277	0.0130	12.50	

1/ Calculated based on 3.5 percent fat, 8.7 percent solids-not-fat, and 87.8 percent fluid carrier.

2/ Calculated for the State as a whole using market milk production in each marketing area for weighting.

TABLE 64. MINIMUM PRODUCER PRICES IN CALIFORNIA FOR MILK FAT USED TO PRODUCE CLASS 2, 3, 4A, AND 4B PRODUCTS, BY MARKETING AREAS, 1988

Marketing Area	Class	January	February	March	April	May	June	July	August	September	October	November	December
						(dollars per pound)							
Southern California	2	1.5262	1.4898	1.4812	1.4812	1.4812	1.4812	1.4812	1.4812	1.4812	1.4812	1.4812	1.4812
Del Norte-Humboldt	2	1.4969	1.4605	1.4519	1.4519	1.4519	1.4519	1.4519	1.4519	1.4519	1.4519	1.4519	1.4519
Northern California and South Valley	2	1.5239	1.4875	1.4789	1.4789	1.4789	1.4789	1.4789	1.4789	1.4789	1.4789	1.4789	1.4789
Southern California	3	1.5262	1.4898	1.4812	1.4812	1.4812	1.4812	1.4812	1.4812	1.4812	1.4812	1.4812	1.4812
Del Norte-Humboldt	3	1.4969	1.4605	1.4519	1.4519	1.4519	1.4519	1.4519	1.4519	1.4519	1.4519	1.4519	1.4519
Northern California and South Valley	3	1.5239	1.4875	1.4789	1.4789	1.4789	1.4789	1.4789	1.4789	1.4789	1.4789	1.4789	1.4789
All Areas	4a	1.4534	1.4448	1.4448	1.4448	1.4448	1.4448	1.4448	1.4448	1.4448	1.4448	1.4448	1.4448
	4b	1.4534	1.4448	1.4448	1.4448	1.4448	1.4448	1.4448	1.4448	1.4448	1.4448	1.4448	1.4448

TABLE 65. MINIMUM PRODUCER PRICES IN CALIFORNIA FOR SOLIDS-NOT-FAT USED TO PRODUCE CLASS 2, 3, 4A, AND 4B PRODUCTS, BY MARKETING AREAS, 1988

Marketing Area	Class	January	February	March	April	May	June	July	August	September	October	November	December
						(dollars per pound)							
Southern California	2	0.6497	0.6212	0.6111	0.6106	0.6111	0.6104	0.6103	0.6203	0.6259	0.6425	0.6515	0.6607
Del Norte-Humboldt	2	0.6195	0.5910	0.5809	0.5804	0.5809	0.5802	0.5801	0.5901	0.5957	0.6123	0.6213	0.6305
Northern California and South Valley	2	0.6239	0.5954	0.5853	0.5848	0.5853	0.5846	0.5845	0.5945	0.6001	0.6167	0.6257	0.6349
Southern California	3	0.6182	0.5897	0.5796	0.5791	0.5796	0.5789	0.5788	0.5888	0.5944	0.6110	0.6200	0.6292
Del Norte-Humboldt	3	0.6182	0.5897	0.5796	0.5791	0.5796	0.5789	0.5788	0.5888	0.5944	0.6110	0.6200	0.6292
Northern California and South Valley	3	0.6182	0.5897	0.5796	0.5791	0.5796	0.5789	0.5788	0.5888	0.5944	0.6110	0.6200	0.6292
All Areas	4a	0.5482	0.5381	0.5376	0.5381	0.5374	0.5373	0.5473	0.5529	0.5747	0.5837	0.5929	0.6053
	4b	0.5482	0.5381	0.5376	0.5381	0.5374	0.5373	0.5473	0.5529	0.5695	0.5785	0.5877	0.6001

TABLE 66. MINIMUM PRODUCER PRICES IN CALIFORNIA FOR MARKET MILK USED TO PRODUCE CLASS 2, 3, 4A, AND 4B PRODUCTS, BY MARKETING AREAS, 1988

Marketing Area	Class	January	February	March	April	May	June	July	August	September	October	November	December
						(dollars per pound)							
Southern California	2	10.99	10.62	10.50	10.50	10.50	10.49	10.49	10.58	10.63	10.77	10.85	10.93
Del Norte-Humboldt	2	10.63	10.25	10.14	10.13	10.14	10.13	10.13	10.22	10.26	10.41	10.49	10.57
Northern California and South Valley	2	10.76	10.39	10.27	10.26	10.27	10.26	10.26	10.35	10.40	10.54	10.62	10.70
Southern California	3	10.72	10.34	10.23	10.22	10.23	10.22	10.22	10.31	10.36	10.50	10.58	10.66
Del Norte-Humboldt	3	10.62	10.24	10.12	10.12	10.12	10.12	10.12	10.20	10.25	10.40	10.48	10.56
Northern California and South Valley	3	10.71	10.34	10.22	10.21	10.22	10.21	10.21	10.30	10.35	10.49	10.57	10.65
All Areas	4a	9.86	9.74	9.73	9.74	9.73	9.73	9.82	9.87	10.06	10.13	10.22	10.32
	4b	9.86	9.74	9.73	9.74	9.73	9.73	9.82	9.87	10.01	10.09	10.17	10.28

1/ Prices have been calculated from the price information presented in Tables 64 and 65 on a f.o.b. Distributor's Plant basis for 3.5 percent butterfat and 8.7 percent solids-not-fat milk.

TABLE 58. MANUFACTURE OF IMITATION ICE CREAM IN CALIFORNIA, BY MONTHS, 1978-1988

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
	(gallons)										
January	121,878	139,716	85,887	84,991	58,338	32,645	18,328	11,575	5,080	9,101	8,136
February	126,241	150,493	106,940	86,492	30,615	53,114	21,167	19,866	8,208	11,118	12,313
March	240,834	133,490	97,292	73,033	59,355	48,327	17,240	15,678	10,247	13,354	17,700
April	156,639	164,277	110,595	86,510	47,529	25,690	25,225	29,222	9,303	13,062	11,176
May	154,087	104,239	114,103	110,514	71,898	30,811	23,682	18,328	14,808	14,977	17,079
June	242,583	188,805	126,704	117,851	47,559	40,210	18,002	20,926	21,050	15,636	11,314
July	174,659	96,434	168,979	107,032	69,747	30,539	30,024	30,907	23,002	18,472	15,024
August	184,196	190,040	151,736	64,801	56,659	28,869	20,629	16,804	12,218	16,942	21,996
September	151,380	148,208	67,301	66,757	66,107	20,640	19,458	19,569	12,477	16,062	12,660
October	151,063	105,293	140,496	81,076	60,716	18,299	23,209	20,145	14,703	16,540	8,998
November	119,974	90,353	57,453	53,795	30,287	13,570	8,761	8,183	7,168	6,826	8,479
December	99,518	55,875	78,515	29,506	14,136	14,638	14,585	11,526	6,819	8,330	7,537
Total	1,923,052	1,567,223	1,306,001	962,358	612,946	357,352	240,310	222,729	145,083	160,420	152,412

TABLE 59. MANUFACTURE OF IMITATION ICE MILK IN CALIFORNIA, BY MONTHS, 1978-1988

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
	(gallons)										
January	77,208	94,091	57,320	50,508	27,760	23,517	22,196	22,049	15,675	6,625	4,910
February	111,726	70,614	60,396	75,254	36,135	27,978	44,210	38,654	26,100	12,439	6,150
March	122,171	135,401	82,734	65,790	71,433	48,673	43,445	23,804	9,335	5,895	9,024
April	158,291	92,791	113,594	78,968	64,878	32,556	36,741	61,398	8,605	13,413	12,070
May	144,561	134,940	75,362	69,301	54,879	39,311	37,819	54,845	8,990	9,067	11,985
June	169,502	105,344	105,706	95,035	56,758	70,585	46,930	22,235	13,873	9,912	13,155
July	141,430	125,292	106,439	94,074	56,279	46,039	42,669	31,426	18,932	17,311	11,660
August	145,842	109,214	105,737	71,097	41,278	63,399	56,660	42,356	8,590	13,805	10,109
September	132,860	77,619	80,342	61,626	43,527	31,075	39,722	22,124	13,495	7,600	15,240
October	126,571	105,029	70,986	52,600	30,088	33,483	26,577	27,490	5,300	6,875	9,080
November	92,476	60,237	54,087	44,893	34,339	21,614	11,083	11,150	6,940	7,505	7,502
December	75,157	49,762	46,511	22,790	15,546	11,496	16,250	13,142	5,660	10,131	3,697
Total	1,497,795	1,160,334	959,214	781,936	532,900	449,726	424,302	370,673	141,495	120,578	114,582

TABLE 60. MANUFACTURE OF IMITATION ICE CREAM AND IMITATION ICE MILK IN CALIFORNIA, BY MONTHS, 1978-1988

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
						(gallons)					
January	199,086	233,807	143,207	135,499	86,098	56,162	40,524	33,624	20,755	15,726	13,046
February	237,967	221,107	167,336	161,746	66,750	81,092	65,377	58,520	34,308	23,557	18,463
March	363,005	268,891	180,026	138,823	130,788	97,000	60,685	39,482	19,582	19,249	26,724
April	314,930	257,068	224,189	165,478	112,407	58,246	61,966	90,620	17,908	26,475	23,246
May	298,648	239,179	189,465	179,815	126,777	70,122	61,501	73,173	23,798	24,044	29,064
June	412,085	294,149	232,410	212,886	104,317	110,795	64,932	43,161	34,923	25,548	24,469
July	316,089	221,726	275,418	201,106	126,026	76,578	72,693	62,333	41,934	35,783	26,684
August	330,038	299,254	257,473	135,898	97,937	92,268	77,289	59,160	20,808	30,747	32,105
September	284,240	225,827	147,643	128,383	109,634	51,715	59,180	41,693	25,972	23,662	27,900
October	277,634	210,322	211,482	133,676	90,804	51,782	49,786	47,635	20,003	23,415	18,078
November	212,450	150,590	111,540	98,688	64,626	35,184	19,844	19,333	14,108	14,331	15,981
December	174,675	105,637	125,026	52,296	29,682	26,134	30,835	24,668	12,479	18,461	11,234
Total	3,420,847	2,727,557	2,265,215	1,744,294	1,145,846	807,078	664,612	593,402	286,578	280,998	266,994

TABLE 61. MANUFACTURE OF ICE CREAM, ICE MILK, SHERBET, IMITATION ICE CREAM, AND IMITATION ICE MILK IN CALIFORNIA, BY MONTHS, 1978-1988

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
						(gallons)					
January	8,166,119	8,845,172	8,627,416	8,534,124	8,611,562	8,253,589	9,171,234	10,291,838	11,177,702	9,689,658	9,166,312
February	8,490,316	8,762,237	9,487,994	9,096,412	8,911,456	9,364,591	10,444,867	10,215,239	10,189,101	10,540,672	11,547,809
March	11,123,088	10,863,987	10,681,888	10,721,675	11,392,718	11,832,882	12,217,766	11,221,692	12,207,982	12,375,471	14,066,527
April	10,193,768	10,285,408	10,680,700	10,715,291	10,744,306	10,535,743	11,616,590	12,577,649	12,619,214	13,927,333	12,962,158
May	11,799,695	11,433,778	10,939,492	11,151,102	11,482,665	11,524,120	13,412,478	13,647,160	13,712,077	13,097,228	13,622,642
June	13,175,200	12,371,643	11,768,670	13,380,655	12,780,985	13,839,455	13,641,702	14,207,053	13,283,051	13,748,984	14,931,939
July	12,113,581	12,201,854	13,304,303	14,216,538	12,794,166	13,004,668	14,431,706	16,042,043	14,766,725	14,398,329	14,648,826
August	13,022,098	12,933,667	12,968,954	12,262,068	13,138,307	14,459,407	14,810,779	14,313,310	13,728,170	13,724,929	16,232,954
September	10,005,872	10,513,706	10,672,526	11,399,935	11,824,569	12,596,433	12,482,225	12,186,171	12,156,635	12,456,549	13,204,911
October	10,997,076	11,182,278	10,824,111	9,843,209	9,920,335	10,411,387	11,936,142	12,037,845	10,854,438	11,568,755	11,350,980
November	9,342,605	8,721,181	8,013,619	8,802,107	9,060,056	9,572,983	9,129,292	8,018,438	9,264,334	9,650,759	10,613,201
December	7,456,748	7,326,991	8,780,551	9,129,355	8,199,935	9,078,371	8,667,777	8,554,479	9,838,736	10,698,294	10,061,818
Total	125,886,166	125,441,902	126,750,224	129,252,471	128,861,060	134,473,629	141,962,558	143,312,917	143,798,165	145,876,961	152,410,077

SALES OF MARKET WHOLE MILK AND LOWFAT MILK BY SIZE AND TYPE OF CONTAINER, AND BY TYPE OF TRADE

In October 1988, all market milk distributors in California were requested to complete a special one-page form relating to their sales of market whole milk and lowfat milk by size and type of container and by type of trade. A similar survey for each October has been made every year since 1951.

Table 67 contains summary tabulations of the data reported on the special survey forms used for October, 1988. In this table, all sales are expressed in gallon units. For example, sales in quarts, represents the number of gallons (expressed as quart units) sold rather than the number of quarts sold. This results in greater comparability and facilitates the computation of percentage distributions.

In 1988, sales by type of trade were reported under the headings of: wholesale, retail, cash-and-carry, peddler, and Federal Government. Since some routes, particularly for the smaller distributors and some of the peddlers, were probably "combination" routes, it seems likely that all sales were not properly classified as to type of trade. However, this factor is so small that it does not appear to have had any significant effect upon the overall results.

Users of these data should note that the survey summaries do not include all sales of fluid milk in California. For the State as a whole, the sales as reported in the summaries account for a sample of approximately 99.6 percent of all market whole milk and lowfat milk sales in California.

TABLE 67. REPORTED SALES OF MARKET WHOLE AND LOWFAT MILK IN CALIFORNIA, BY TYPE OF TRADE AND CONTAINER CHARACTERISTICS, OCTOBER 1988

Container Size and Type	Type of Trade										Container Size and Type Total Sales	
	Wholesale		Retail		Cash-and-Carry		Peddler		Federal Government			
	(gallons)	(percent) 1/	(gallons)	(percent)	(gallons)	(percent)	(gallons)	(percent)	(gallons)	(percent)	(gallons)	(percent)
Bulk	1,009,546	2.1	115	0.2			245,706	2.6	303,373	36.6	1,558,740	2.7
Dispensing	914,978	1.9	115	0.2			238,946	2.5	300,015	36.2	1,454,054	2.5
Other 3/	94,568	0.2					6,760	2/	3,358	0.4	104,686	0.2
Ten-Quart	25,066	0.1	35	0.1	3,628	2.7	6,585	0.1			35,314	0.1
Gallon	27,564,584	58.0	3,626	6.2	68,024	51.4	5,001,656	53.1	294,882	35.6	32,932,772	56.8
Paper	2,223,035	4.7	477	0.8	14,034	10.6	421,219	4.5	107,584	13.0	2,766,349	4.8
Molded Plastic	25,341,549	53.3	3,149	5.4	53,990	40.8	4,580,437	48.7	187,298	22.6	30,166,423	52.0
Half Gallon	12,370,789	26.0	49,832	85.0	51,597	39.0	2,164,357	23.0	143,119	17.3	14,779,694	25.5
Glass	5,316	2/	25,408	43.4	19,131	14.4	7,399	0.1			57,254	0.1
Paper	9,995,694	21.0	23,278	39.7	23,200	17.5	1,774,159	18.8	141,250	17.0	11,957,581	20.6
Molded Plastic	2,369,779	5.0	1,146	2.0	9,266	7.0	382,799	4.1	1,869	0.2	2,764,859	4.8
Quart	2,480,432	5.2	3,685	6.3	4,546	3.4	401,955	4.3	15,355	1.9	2,905,973	5.0
Glass	49,145	2/	3,099	5.3	2,886	2.2	11,144	0.1			66,274	2/
Paper	2,229,193	4.7	586	1.0	1,142	0.9	390,811	4.2	15,355	1.9	2,637,087	4.5
Molded Plastic	202,094	2/			518	0.4					202,612	2/
Pint	1,089,043	2.3	305	0.5	3,278	2.5	330,780	3.5	9,240	1.1	1,432,646	2.5
One-Third Quart	787,101	1.7	442	0.8	1,285	1.0	262,003	2.8	15,452	1.9	1,066,283	1.8
Half-Pint	2,201,203	4.6	558	1.0	52	2/	1,001,222	10.6	47,924	5.8	3,250,959	5.6
Type of Trade Total Sales	47,527,764	100.0	58,598	100.0	132,410	100.0	9,414,264	100.0	829,345	100.0	57,962,381	100.0

1/ All calculated percentages reflect rounding, therefore the addition of percentages for Types of Trade may not sum to 100 percent.

2/ Calculated percentage is either less than or equal to 0.05 percent.

3/ Includes 52,464 gallons sold in 4 to 10 ounce containers.

PLANTS REPORTING SALES OF FLUID MARKET MILK

The number of plants reporting sales of fluid market milk during the month of December by county of plant location for the years 1978 through 1988 is shown in Table 68. During this ten-year period, the number of plants has decreased from 112 in 1978 to 59 in 1988, a decline of 47.3 percent.

TABLE 68. NUMBER OF PLANTS IN CALIFORNIA REPORTING SALES OF FLUID MARKET MILK DURING DECEMBER, BY COUNTIES OF PLANT LOCATION, 1978-1988

COUNTY	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
NORTH COAST											
DEL NORTE	1	1	1	1	1	1	1	1	1	1	1
HUMBOLDT	2	2	2	2	2	2	2	1	1	1	1
MENDOCINO	2	2	1	1	1	1	1	1			
NORTH CENTRAL											
SHASTA	2	2	2	2	2	2	2	2	3	2	2
SISKIYOU	1	1	1	1	1	1	1	1	1	1	1
TRINITY											
NORTH EAST											
LASSEN											
MODOC											
PLUMAS											
CENTRAL COAST											
ALAMEDA	7	7	7	7	7	7	7	6	6	7	5
CONTRA COSTA	3	3	1	1	1	1	1	2	2	1	1
LAKE											
MARIN											
MONTEREY	2	2	2	2	2	1	1	1	1	1	1
NAPA	1	1	1	1	1	1	1	1			
SAN BENITO											
SAN FRANCISCO	1	1	1	1	1	1	1				
SAN LUIS OBISPO	2	2	2	2	2	2	1	1	1	1	1
SAN MATEO	1										
SANTA CLARA	5	5	3	3	3	2	2	2	2	2	2
SANTA CRUZ	1	1	1								
SONOMA	6	6	5	4	4	4	3	3	3	2	1
SACRAMENTO VALLEY											
BUTTE	1	1	1	1	1	1					
COLUSA											
GLENN											
SACRAMENTO	5	5	5	5	5	6	5	5	4	4	4
SOLANO						1	1	1	1	1	1
SUTTER											
TEHAMA											
YOLO											
YUBA											
SAN JOAQUIN VALLEY											
FRESNO	5	5	5	5	5	5	4	4	4	4	4
KERN	3	3	3	3	3	3	3	3	2	2	2
KINGS											
MADERA											
MERCED							1	1	1	1	1
SAN JOAQUIN	2	2	1	1	1	1	1	1	1	1	1
STANISLAUS	2	2	2	2	2	2	2	2	1	1	1
TULARE				1	1	1				1	1
SIERRA MOUNTAIN											
ALPINE											
AMADOR											
CALAVERAS											
EL DORADO											
INYO											
MARIPOSA											
MONO											
NEVADA											
PLACER											
SIERRA											
TUOLUMNE											
SOUTHERN CALIFORNIA											
IMPERIAL											
LOS ANGELES	35	35	29	25	25	22	20	17	15	16	15
ORANGE	7	7	5	4	4	4	3	4	4	4	4
RIVERSIDE	5	5	4	4	4	4	4	4	4	3	2
SAN BERNARDINO	4	4	3	3	3	3	3	4	4	4	4
SAN DIEGO	5	5	5	5	5	5	5	3	2	2	2
SANTA BARBARA											
VENTURA	1	1	1	1	1	1	1	1	1	1	1
STATE TOTAL	112	111	94	88	88	85	77	72	65	64	59

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CALIFORNIA LIVESTOCK STATISTICS

1988

FOREWORD

The information contained in this bulletin is published to assist individuals in the livestock industry to plan and make operational decisions. Ranchers, farmers and businessmen need reliable and accurate statistical data as a base for their planning.

This bulletin contains a compilation of official estimates of livestock inventory, production, income, and related statistical information for cattle and calves, sheep and-lambs and hogs. The 1987 and earlier figures are revised; the 1988 figures are generally preliminary. The data contained herein supercedes any previous bulletins.

One of the primary functions of the California Agricultural Statistics Service is the preparation and release of data useful to agriculture. This office is one of 45 State Statistical offices of the National Agricultural Statistics Service, which is part of the United States Department of Agriculture. The California office operates under a cooperative agreement with the California Department of Food and Agriculture. As part of a Federal Agency, our functions are correlated with the National programs to provide uniform statistics regarding agriculture for the Nation. As a State service, this office develops information to fulfill local needs in the form of county estimates.

We appreciate the voluntary cooperation of ranchers, farmers and agri-businessmen in the gathering of data for our publications. Their faithful involvement in this data gathering effort is deeply appreciated; we extend our sincere thanks.

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ESTIMATES SECTION

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TABLE 1 — California's livestock ranking, 1988

Commodity	Unit	CALIFORNIA		LEADING STATE		United States Total
		Rank	Number	State	Number	
ALL CATTLE & CALVES						
Cattle Operations 1/	Number	18	33,000	Texas	144,000	1,370,640
Inventory 2/	1,000 Head	5	4,700	Texas	13,700	99,484
Calf Crop	1,000 Head	5	1,850	Texas	5,250	40,872
BEEF CATTLE & CALVES						
Beef Cow operations 1/	Number	18	20,000	Texas	127,000	974,930
Inventory 2/	1,000 Head	13	925	Texas	5,445	33,669
Beef Production	1,000 Lbs.	5	2,093,710	Texas	5,763,400	40,897,874
Value of Beef Production	1,000 Dol.	6	1,305,689	Texas	3,884,628	27,426,021
MILK COWS & CALVES						
Milk Cow Operations 1/	Number	13	4,900	Wisconsin	36,000	220,800
Inventory 2/	1,000 Head	2	1,025	Wisconsin	1,740	10,217
Milk Production	1,000 Lbs.	2	18,679	Wisconsin	25,400	145,527
Value of Milk Production	1,000 Dol.	2	2,087	Wisconsin	3,041	17,947
SHEEP & LAMBS						
Number of Operations 1/	Number	4	6,500	Iowa	12,000	115,490
Inventory 2/	1,000 Head	2	940	Texas	1,900	10,802
Lamb Crop	1,000 Head	2	590	Texas	950	7,123
Lamb & Mutton Production	1,000 Lbs.	2	73,509	Texas	94,768	703,249
Value of Meat Production	1,000 Dol.	2	53,091	Texas	54,412	418,550
Wool Production	1,000 Lbs.	3	7,103	Texas	18,200	89,235
Value of Wool Production	1,000 Dol.	3	10,157	Texas	35,854	124,644
HOGS & PIGS						
Number of Operations 1/	Number	23	5,100	Iowa	41,000	333,500
Inventory 3/	1,000 Head	31	120	Iowa	13,900	55,299
Pig Crop	1,000 Head	30	223	Iowa	22,467	92,566
Production	1,000 Lbs.	32	36,959	Iowa	5,500,958	21,630,015
Value of Production	1,000 Dol.	32	17,401	Iowa	2,356,126	9,128,050
BEES & HONEY						
Number of Colonies	1,000 Col.	1	520	California	520	3,186
Yield Per Colony	Pounds	36	40	Hawaii	179	66
Honey Production	1,000 Lbs.	2	20,800	Florida	25,200	211,511
Value of Honey Production	1,000 Dol.	2	9,984	Florida	12,852	107,161

1/ Number of operations with one or more head; may not be a farm.
2/ Inventory as of January 1, 1989.
3/ Inventory as of December 31, 1988.

TABLE 2 — Cash receipts from farm marketings of livestock and poultry commodities, California, 1984-88

Commodity	1984	1985	1986	1987	1988
	1,000 Dollars				
Cattle and Calves	1,463,485	1,251,989	1,319,211	1,331,433	1,613,819
Sheep and Lambs	51,209	51,771	57,830	78,237	66,547
Hogs and Pigs 1/	26,811	22,142	28,134	31,680	22,146
Wool	7,599	5,448	5,431	6,300	10,157
Turkeys 1/2/	178,162	204,672	208,926	180,081	200,340
Farm Chickens 1/2/	8,095	7,372	7,673	5,580	3,996
Comrl. Broilers & Fryers 1/2/	296,894	274,495	312,736	341,053	339,094
Chicken Eggs 1/2/	409,313	335,500	347,362	307,548	297,786
Dairy Products 3/	1,988,008	2,078,402	2,058,008	2,082,883	2,080,739
Honey	N/A	N/A	14,602	8,085	9,984
Other Livestock & Poultry	99,201	92,431	75,400	53,078	59,163
TOTAL	4,528,777	4,324,222	4,435,313	4,425,958	4,703,771

1/ Marketings ending December 1.
2/ Cash receipts include value of home consumption.
3/ Milk and cream cash receipts. Does not include value of home consumption.

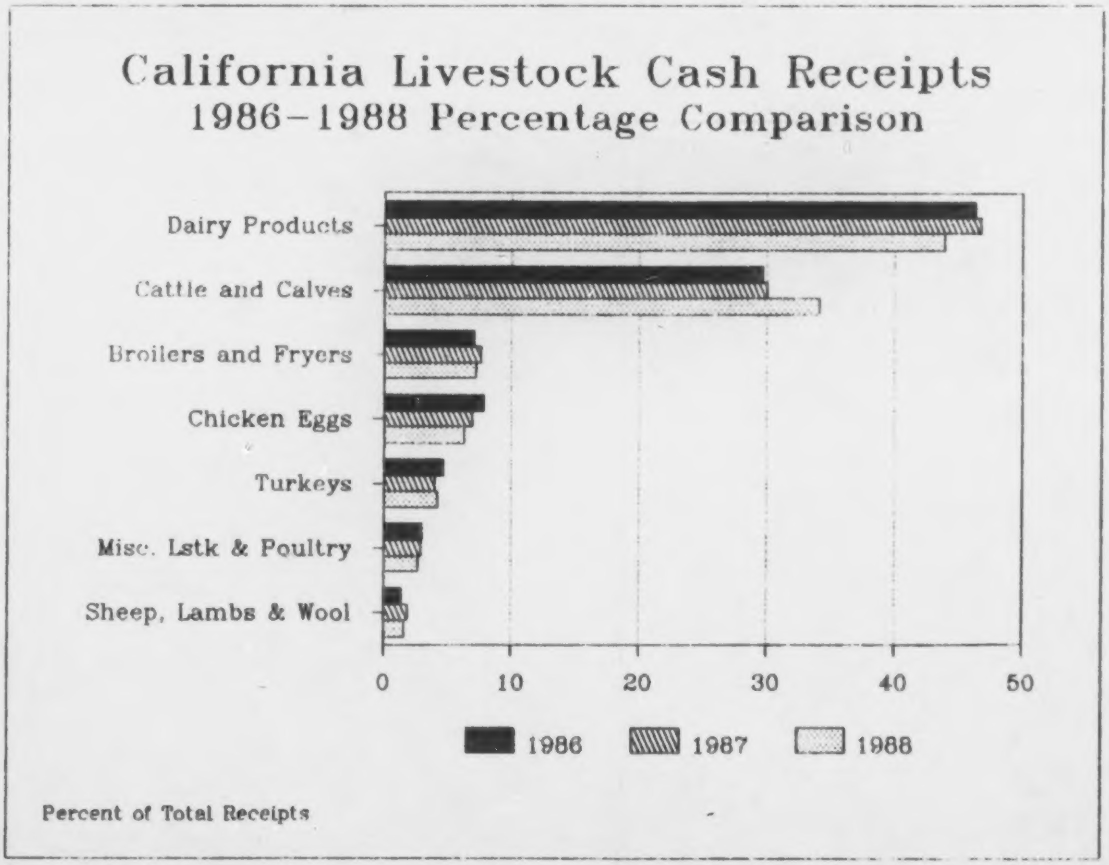

TABLE 3 — Livestock production and income, California, 1984-88

Specie	Year	Production 1/	Marketings 2/	Average Price per 100 Pounds		Value of Production	Cash Receipts 3/	Value of Home Consumption	Gross Income
		- - 1,000 Pounds - -		- Dollars -		- - - - 1,000 Dollars - - - -			
Total Meat Animals	1984	2,029,620	2,864,716	—	—	1,092,899	1,541,505	32,151	1,573,656
	1985	1,867,015	2,685,850	—	—	928,251	1,325,902	22,181	1,348,083
	1986	1,915,093	2,961,041	—	—	914,082	1,405,175	22,937	1,428,112
	1987	1,940,385	2,512,076	—	—	1,118,573	1,441,350	22,365	1,463,715
	1988	2,204,178	2,735,928	—	—	1,376,181	1,702,512	26,518	1,729,030
				(CATTLE)	(CALVES)				
Cattle and Calves	1984	1,896,490	2,717,500	53.80	56.30	1,021,120	1,463,485	27,561	1,491,046
	1985	1,743,060	2,556,400	48.80	55.80	855,915	1,251,989	17,513	1,269,502
	1986	1,783,050	2,814,100	46.70	53.70	836,650	1,319,211	18,302	1,337,513
	1987	1,802,580	2,349,400	56.30	71.60	1,025,363	1,331,433	18,819	1,350,252
	1988	2,093,710	2,591,000	61.80	82.70	1,305,689	1,613,819	23,406	1,637,225
				(SHEEP)	(LAMBS)				
Sheep and Lambs	1984	78,520	93,344	17.40	59.70	44,694	51,209	2,327	53,536
	1985	73,145	82,708	23.10	68.30	48,343	51,771	2,405	54,176
	1986	73,668	93,115	23.20	68.60	46,988	57,830	2,114	59,944
	1987	83,260	108,114	25.10	74.90	61,598	78,237	1,305	79,542
	1988	73,509	98,228	23.60	70.30	53,091	66,547	990	67,537
Hogs and Pigs	1984	54,610	53,872	49.70	—	27,085	26,811	2,263	29,074
	1985	50,810	46,742	47.30	—	23,993	22,142	2,263	24,405
	1986	58,375	53,826	52.20	—	30,444	28,134	2,521	30,655
	1987	54,545	54,562	58.00	—	31,612	31,680	2,241	33,921
	1988	36,959	46,700	47.00	—	17,401	22,146	2,122	24,268

1/ Adjustments made for changes in inventory and for inshipments.
2/ Excludes custom slaughter for use on farms where produced and interfarm sales within the state.
3/ Receipts from marketing and sale of farm slaughter.

TABLE 4 — Livestock on farms and ranches, January 1, California, 1985-89

Year	All Cattle & Calves	Beef Cows & Heifers Calved	Milk Cows & Heifers Calved	Stock Sheep	Sheep & Lambs on Feed	All Hogs 1/
	- - - - - - - 1,000 Head - - - - - - - - -					
1985	4,960	1,011	974	870	195	140
1986	5,000	950	1,030	860	205	145
1987	4,750	950	990	795	185	150
1988	4,650	915	1,005	800	190	130
1989	4,700	925	1,025	780	160	120

1/ December 1 preceding year.

TABLE 5 — All livestock on farms, United States, January 1, 1989

State and Region	Cattle and Calves			Stock Sheep and Lambs	All Hogs 1/	Livestock on Feed	
	All	Cows and Heifers That Have Calved				Cattle & Calves 2/	Sheep & Lambs 3/
		Beef	Milk				
	1,000 Head						
Alabama	1,800	901	39	—	345	40	—
Alaska	9.2	2.5	1.9	2.7	.6	—	—
Arizona	880	263	92	239	130	275	45
Arkansas	1,750	932	68	—	540	12	—
CALIFORNIA	4,700	925	1,025	780	120	485	160
Colorado	2,750	775	75	445	220	885	380
Connecticut	73	5	35	8.4	6.8	—	—
Delaware	29	3	9	—	33	—	—
Florida	2,025	1,148	182	—	140	15	—
Georgia	1,500	700	104	—	1,210	15	—
Hawaii	208	77	12	—	43	23	—
Idaho	1,620	520	170	277	80	238	10
Illinois	1,950	520	200	126	5,600	340	14
Indiana	1,290	350	180	86	4,300	230	9
Iowa	4,750	1,265	310	350	13,900	640	65
Kansas	5,900	1,450	104	164	1,500	1,460	98
Kentucky	2,500	1,060	215	32	1,090	25	—
Louisiana	1,075	582	88	17	60	9	—
Maine	105	9	43	15	8	—	—
Maryland	328	60	109	35	170	12	—
Massachusetts	70	10	30	14	31	—	—
Michigan	1,225	125	345	89	1,250	210	26
Minnesota	2,940	390	810	225	4,690	310	38
Mississippi	1,390	712	68	—	237	12	—
Missouri	4,500	2,004	226	109	2,850	95	16
Montana	2,350	1,324	25	538	245	90	30
Nebraska	5,400	1,697	103	119	4,050	1,950	50
Nevada	490	231	19	85	15	29	2
New Hampshire	55	6	21	11	9.1	—	—
New Jersey	75	11	30	15	38	3	—
New Mexico	1,350	578	63	485	26	130	31
New York	1,584	102	811	81	151	19	—
North Carolina	850	343	107	13	2,700	23	—
North Dakota	1,600	832	88	143	340	40	21
Ohio	1,760	385	367	200	2,210	200	46
Oklahoma	5,200	1,893	107	120	240	305	16
Oregon	1,390	573	94	350	100	91	125
Pennsylvania	1,920	216	719	134	970	75	—
Rhode Island	6.0	0.8	2.4	—	5.9	—	—
South Carolina	610	286	41	—	450	20	—
South Dakota	3,480	1,506	144	520	1,760	260	70
Tennessee	2,300	1,038	202	10	1,050	20	—
Texas	13,700	5,445	355	1,730	560	2,070	170
Utah	770	315	74	480	33	48	23
Vermont	297	12	170	17	6.0	—	—
Virginia	1,670	663	142	115	400	40	43
Washington	1,300	359	216	74	53	190	—
West Virginia	500	245	26	82	37	10	—
Wisconsin	4,130	150	1,740	76	1,275	100	8
Wyoming	1,330	670	10	720	21	109	117
UNITED STATES 4/	99,484	33,669	10,217	9,189	55,299	11,160	1,613

1/ December 1 preceding year.
2/ Included in All Cattle and Calves.
3/ Not included in Stock Sheep
4/ Includes unpublished states.

TABLE 6—Cattle inventory, supply and disposition, California, 1984-88 1/

Year	Beginning Inventory January 1	Calf Crop	Inshipments	Total Supply	Marketings 2/		Farm Slaughter Cattle & Calves 3/	Deaths		Ending Inventory January 1 (Following Yr)
					Cattle	Calves		Cattle	Calves	
	1,000 Head									
1984	5,000	1,740	1,230	7,970	2,438	295	27	95	155	4,960
1985	4,960	1,700	1,200	7,860	2,274	320	26	75	165	5,000
1986	5,000	1,710	1,220	7,930	2,504	360	26	100	190	4,750
1987	4,750	1,710	846	7,306	2,093	286	25	90	162	4,650
1988	4,650	1,850	867	7,367	2,119	303	25	80	140	4,700

1/ Balance sheet estimates: The sum of inventory at beginning of year (January 1), births, and inshipments is equal to the sum of marketings, farm slaughter, deaths, and end-of-year inventory.

2/ Includes custom slaughter for use on farms where produced, but excludes interfarm sales within the State.

3/ Excludes custom slaughter for farms at commercial establishments.

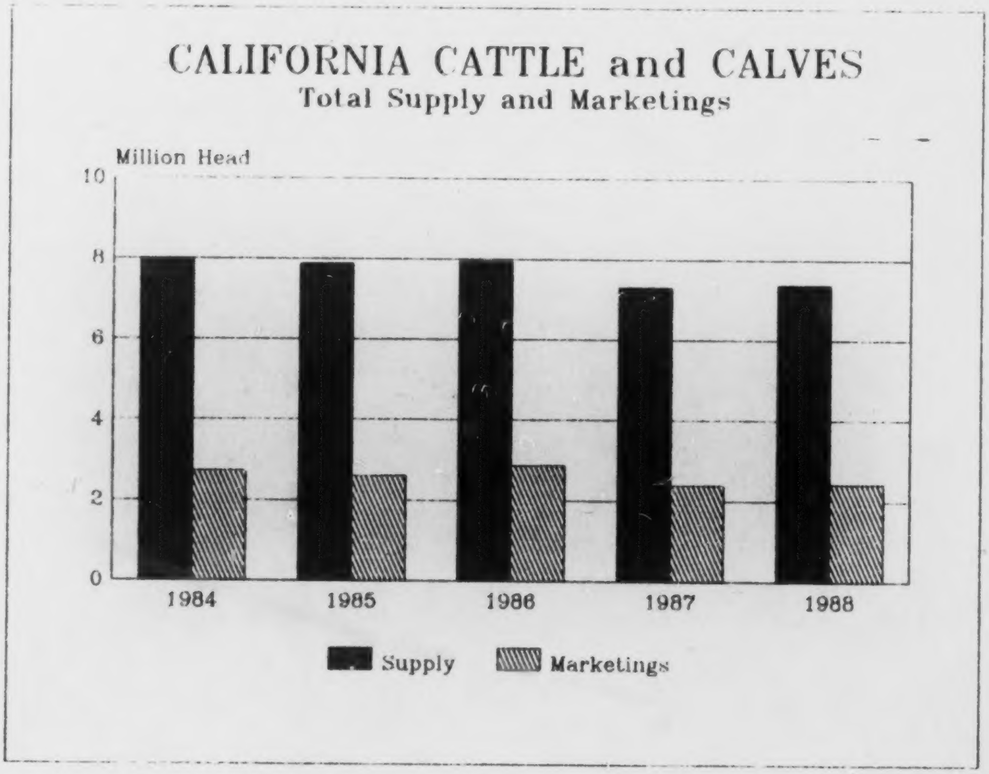

TABLE 7 —Cattle on farms, California, January 1, 1985-89

Year	Cows That Have Calved			Heifer Replacements				Other Cattle			
	Beef	Dairy	All	Beef	Dairy	All	Other Heifers	Calves Under 500 Lbs.	Bulls 500 Lbs. & Over	Steers 500 Lbs. & Over	Total Cattle
	1,000 Head										
1985	1,011	974	1,985	195	470	665	240	1,114	80	876	4,960
1986	950	1,030	1,980	165	490	655	195	1,150	70	950	5,000
1987	950	990	1,940	155	470	625	185	1,100	70	830	4,750
1988	915	1,005	1,920	155	475	630	160	1,020	70	850	4,650
1989	925	1,025	1,950	145	485	630	190	1,005	70	855	4,700

TABLE 8 — Calf crop and death losses, California, 1984-88

Year	Cows That Have Calved January 1	Calf Crop	Deaths All Cattle & Calves
	1,000 Head		
1984	1,970	1,740	250
1985	1,985	1,700	240
1986	1,980	1,710	290
1987	1,940	1,710	252
1988	1,920	1,850	220

TABLE 9 — Cattle and calves slaughtered under Federal and State inspection, California, 1984-88

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Total 1/
	1,000 Head												
CATTLE													
1984	138	138	145	139	156	154	153	168	134	157	126	127	1,736
1985	147	124	127	130	151	140	153	143	127	134	112	120	1,608
1986	131	104	112	127	136	134	145	133	128	135	109	126	1,521
1987	120	97	107	114	107	122	124	114	106	109	98	110	1,328
1988	105	100	110	100	102	108	103	111	94	95	93	95	1,215
CALVES													
1984	23	24	24	22	23	21	23	23	20	22	21	21	267
1985	25	22	23	22	24	20	27	25	24	25	24	28	288
1986	26	27	28	30	31	30	30	24	25	24	21	26	325
1987	26	24	28	23	22	24	24	22	21	18	19	21	272
1988	19	18	19	16	14	13	14	15	13	11	10	12	174

1/ Totals may not equal sum of parts due to rounding.

TABLE 10 — Cattle and calves in feedlots, by districts, California, 1988-89

Month and Year	Sacramento Vly, North Coast & Central Coast	San Joaquin Valley Less Kern County	So. California + Kern — Less Imperial Valley	Imperial Valley	State Total
	1,000 Head				
1988					
Jan. 1	7.0	140.0	32.0	256.0	435.0
Feb. 1	5.5	124.6	29.3	255.6	415.0
Mar. 1	4.1	108.6	32.9	244.4	390.0
Apr. 1	4.8	94.4	31.1	244.7	375.0
May 1	5.6	127.7	25.4	251.3	410.0
Jun. 1	7.8	155.0	29.2	238.0	430.0
Jul. 1	12.3	172.7	28.8	241.2	455.0
Aug. 1	12.5	172.3	29.3	235.9	450.0
Sep. 1	15.4	174.5	26.7	283.4	500.0
Oct. 1	35.8	182.9	27.3	284.0	530.0
Nov. 1	40.9	174.4	41.6	293.1	550.0
Dec. 1	40.7	169.3	56.0	284.0	550.0
1989					
Jan. 1	38.8	132.1	28.1	286.0	485.0
Feb. 1	29.4	117.4	24.9	253.3	425.0
Mar. 1	20.1	98.7	23.4	262.8	405.0
Apr. 1	16.3	89.6	22.9	261.2	390.0
May 1	14.6	89.3	23.3	247.8	375.0

TABLE 11 — Cattle and calves marketed from feedlots, California, 1985-89

Year	January-March	April-June	July-September	October-December	Total
	1,000 Head				
1985	257	257	290	245	1,049
1986	203	190	220	226	839
1987	185	160	200	220	765
1988	205	200	210	235	850
1989	240				

TABLE 12 — Cattle operations and inventory, percentage by size groups, 1986-87*

State	1 - 99 Head				100 - 499 Head				500+ Head			
	Operations		Inventory		Operations		Inventory		Operations		Inventory	
	1986	1987	1986	1987	1986	1987	1986	1987	1986	1987	1986	1987
	Percent											
California	80.6	80.0	8.4	8.5	13.2	13.6	23.2	24.4	6.2	6.4	68.4	67.1
Iowa	75.4	73.8	32.9	30.4	23.3	24.9	51.6	52.2	1.3	1.3	15.5	17.4
Kansas	70.9	70.9	19.8	19.2	25.5	26.3	36.1	37.0	3.6	2.8	44.1	43.8
Missouri	85.4	85.3	47.8	48.0	14.1	14.2	45.7	44.0	0.5	0.5	6.5	8.0
Nebraska	61.4	60.9	14.5	14.0	32.9	33.3	38.5	37.5	5.7	5.8	47.0	48.5
Oklahoma	79.7	79.7	29.0	30.0	18.4	18.4	44.5	43.1	1.9	1.9	26.5	26.9
South Dakota	52.4	50.0	14.8	14.0	42.8	45.0	57.3	57.0	4.8	5.0	27.9	29.0
Texas	85.0	85.1	25.4	25.6	12.5	12.4	28.0	27.0	2.5	2.5	46.6	47.4
Wisconsin	77.4	77.3	46.2	45.6	22.6	22.7	51.2	51.3	1/	1/	2.6	3.1
United States	83.6	83.4	31.3	30.7	14.	15.0	39.2	39.2	1.6	.6	29.5	30.1

/ Combined with other size groups.
988 estimates available July 28, 1989.

TABLE 13 — Range condition in percent, California, 1984-88 1/

Year	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Average
	Percent									
1984	84	80	80	82	79	81	81	82	89	82
1985	79	83	78	78	78	76	77	80	83	79
1986	2/	96	94	90	89	89	89	88	2/	91
1987	2/	69	72	74	70	69	70	66	2/	70
1988	2/	63	69	68	67	64	66	62	2/	66

1/ Equivalent of reported conditions: 35-49 severe drought, 50-64 very poor, 65-79 poor to fair, 80+ good to excellent,

2/ Not available.

NOTE: Figures relate to condition about the first of the month.

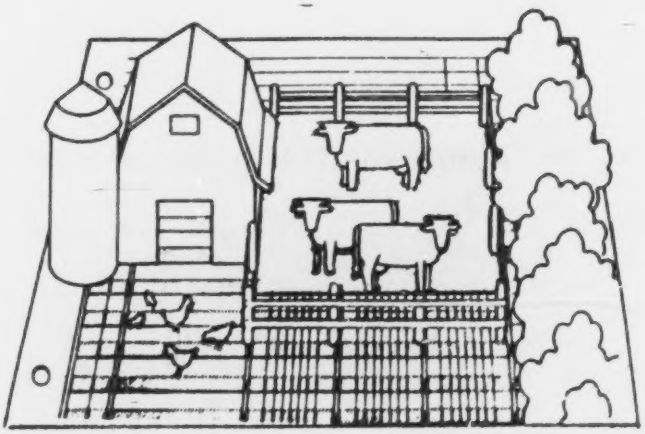

TABLE 14 — Milk cow operations and inventory, percentage by size groups, 1986-87, selected states*

State	1 - 49 Head				50 - 99 Head				100+ Head			
	Operations		Inventory		Operations		Inventory		Operations		Inventory	
	1986	1987	1986	1987	1986	1987	1986	1987	1986	1987	1986	1987
	Percent											
California	57.8	55.0	1.0	.9	6.9	7.0	2.7	2.8	35.3	38.0	96.3	96.3
Iowa	78.0	71.6	50.9	41.8	20.0	26.3	40.3	48.8	2.0	2.1	8.8	9.4
Michigan	62.5	57.1	24.8	20.9	25.0	28.6	36.0	37.2	12.5	14.3	39.2	41.9
Minnesota	68.1	67.4	45.6	46.9	29.0	28.9	42.1	40.7	2.9	3.7	12.3	12.4
New York	54.4	52.4	24.6	24.9	33.6	34.5	41.5	40.7	12.0	13.1	33.9	34.4
Ohio	67.9	69.3	34.6	34.8	26.4	23.8	45.9	41.3	5.7	6.9	19.5	23.9
Pennsylvania	66.7	65.9	39.3	39.0	27.2	27.6	39.1	39.0	6.1	6.5	21.6	22.0
Wisconsin	65.1	63.5	43.2	41.9	30.0	31.1	43.0	42.5	4.9	5.4	13.8	15.6
United States	70.0	68.6	28.4	27.3	22.1	22.7	33.9	33.2	7.9	8.7	37.7	39.5

* 1988 estimates available July 28, 1989.

TABLE 15 — Farms and livestock operations, California, 1984-88 1/

Year	All Farms 2/	Cattle Operations 3/	Milk Cow Operations	Sheep & Lamb Operations	Hog Operations
	Number				
1984	78,000	35,000	5,300	6,000	5,500
1985	79,000	34,000	5,200	6,000	5,000
1986	79,000	34,000	5,100	6,200	5,000
1987	78,000	33,000	5,000	6,000	5,000
1988	78,000	33,000	4,900	6,500	5,100

1/ An operation is any place having one or more head of the species on hand at any time during the year and may not qualify as a farm.
2/ Definition of farm: Places with annual sales of agricultural products of $1,000 or more.
3/ Includes milk cow operations.

TABLE 16 — Milk cows, milk production, and milk price, California, 1984-88

Year	Milk Cows and Heifers Calved		Annual Production per Milk Cow		Total Annual Production on Farms		Wholesale Price
	January 1	Average During Year	Milk	Milk Fat	Milk	Milk Fat	Milk
	1,000 Head		Pounds		Million Pounds		$/Cwt.
1984	962	967	15,821	563	15,299	544	12.85
1985	974	1,004	16,701	610	16,768	612	12.18
1986	1,030	1,013	17,019	618	17,240	626	11.77
1987	990	998	17,966	652	17,930	651	11.43
1988	1,005	1,015	18,403	674	18,679	684	10.94
1989	1,025	—	—	—	—	—	—

TABLE 17 — Beef cattle average prices received by farmers, California, 1984-88

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual Average
	Dollars Per Cwt.												
	ALL BEEF CATTLE												
1984	53.20	55.00	55.80	56.50	54.30	52.80	53.10	54.50	52.40	52.40	52.50	52.70	53.80
1985	51.30	53.90	51.60	48.40	50.20	48.80	46.80	45.90	44.40	46.90	48.30	50.10	48.80
1986	49.40	47.80	46.30	42.40	43.40	42.40	45.60	47.20	49.70	49.90	48.90	49.40	46.70
1987	50.50	52.80	53.80	55.50	57.10	56.60	56.50	57.50	60.00	58.20	56.00	59.30	56.30
1988	59.10	62.60	63.00	63.70	64.70	61.80	59.50	62.50	62.30	60.10	59.50	60.60	61.80
	BEEF STEERS AND HEIFERS												
1984	63.30	63.90	64.70	64.00	60.90	57.60	59.50	60.70	58.90	59.00	61.00	60.00	61.00
1985	61.20	61.70	58.20	55.50	56.20	54.40	52.70	52.30	50.80	55.00	57.00	60.20	56.00
1986	58.30	56.10	55.30	51.50	50.20	48.30	52.50	54.30	56.00	56.80	56.80	57.80	54.40
1987	56.90	60.50	61.20	64.20	66.40	65.80	63.90	65.50	67.70	67.50	64.90	67.30	64.50
1988	66.70	69.00	70.10	72.50	73.90	70.10	67.50	70.60	71.20	70.60	72.00	70.80	70.40
	BEEF COWS 1/												
1984	38.30	40.20	42.20	42.50	40.30	40.00	40.00	40.20	38.70	37.20	35.60	36.20	39.40
1985	38.90	41.60	42.50	40.00	38.50	37.20	36.50	35.00	34.70	33.20	32.80	33.80	37.00
1986	34.60	36.40	36.70	31.60	33.00	33.60	34.80	36.60	37.50	36.80	36.10	36.90	35.30
1987	40.00	42.50	44.30	44.20	43.40	43.40	44.00	44.80	46.20	45.00	44.60	45.70	44.00
1988	46.40	48.10	48.20	47.90	48.10	45.50	45.70	47.00	47.60	45.50	44.80	44.50	46.70

1/ Includes cull dairy cows sold for slaughter but not dairy cows for herd replacement.

TABLE 18 — Calves, average prices received by farmers, California, 1984-88

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual Average
	Dollars Per Cwt.												
1984	58.40	57.90	57.70	59.00	55.40	55.10	56.30	53.80	55.20	55.90	56.30	55.80	56.30
1985	59.20	61.30	58.80	59.90	57.40	54.70	52.50	53.00	52.50	54.70	53.70	51.90	55.80
1986	53.60	53.20	53.80	50.40	49.60	50.10	51.30	52.70	56.20	58.20	55.90	56.40	53.70
1987	61.00	66.00	68.30	68.40	72.40	73.70	72.40	75.10	77.60	74.40	71.10	71.10	71.60
1988	79.80	85.40	86.80	84.70	85.20	78.10	76.30	82.60	84.90	82.20	84.30	83.10	82.70

TABLE 19 — Milk cows, average prices received by farmers, California, 1984-88 1/

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual Average
	Dollars Per Head												
1984	1,100	—	—	1,100	—	—	1,050	—	—	1,090	—	—	1,090
1985	1,090	—	—	1,100	—	—	1,060	—	—	980	—	—	1,060
1986	1,000	—	—	965	—	—	1,020	—	—	1,010	—	—	1,000
1987	1,050	—	—	1,090	—	—	1,120	—	—	1,160	—	—	1,110
1988	1,170	—	—	1,210	—	—	1,180	—	—	1,170	—	—	1,180

1/ Milk cows sold for dairy herd replacement only.

TABLE 20—Cattle and calves, number on farms by class, California 1988-1989

Counties	January 1							
	All Cattle & Calves		Cows and Heifers That Have Calved					
			Dairy		Beef		Total	
	1988 1/	1989 2/	1988	1989	1988	1989	1988	1989
	Number of Head							
Del Norte	9,100	11,000	2,400	2,300	1,200	1,000	3,600	3,300
Humboldt	70,700	72,000	16,500	16,700	24,800	23,900	41,300	40,600
Mendocino	26,200	28,000	1,100	1,300	13,200	13,100	14,300	14,400
	106,000	111,000	20,000	20,300	39,200	38,000	59,200	58,300
Shasta	53,500	50,500	1,650	1,550	15,800	17,000	17,450	18,550
Siskiyou	89,000	92,000	2,700	2,800	50,500	49,500	53,200	52,300
Trinity	2,500	3,500	50	50	1,500	2,000	1,550	2,050
	145,000	146,000	4,400	4,400	67,800	68,500	72,200	72,900
Lassen	81,000	100,000	250	250	48,000	54,000	48,250	54,250
Modoc	51,800	57,000	100	—	36,700	33,000	36,800	33,000
Plumas	20,200	18,000	50	50	12,300	13,000	12,350	13,050
	153,000	175,000	400	300	97,000	100,000	97,400	100,300
Alameda	29,400	25,000	—	—	12,300	11,500	12,300	11,500
Contra Costa	29,500	33,000	2,200	2,200	10,100	10,600	12,300	12,800
Lake	7,300	7,200	—	—	3,200	3,300	3,200	3,300
Marin	19,300	20,000	12,000	12,900	4,300	4,200	16,300	17,100
Monterey	179,000	170,000	3,000	3,700	48,100	46,000	51,100	49,700
Napa	8,100	9,000	1,000	1,100	3,800	4,000	4,800	5,100
San Benito	62,700	57,000	1,000	1,500	15,800	17,500	16,800	19,000
San Francisco	—	—	—	—	—	—	—	—
San Luis Obispo	121,000	110,000	1,400	1,300	47,000	53,000	48,400	54,300
San Mateo	6,100	6,000	—	—	3,200	2,500	3,200	2,500
Santa Clara	63,700	53,000	4,000	4,000	16,400	14,600	20,400	18,600
Santa Cruz	3,900	2,800	400	400	1,000	1,200	1,400	1,600
Sonoma	114,000	125,000	33,500	37,500	16,800	17,600	50,300	55,100
	644,000	618,000	58,500	64,600	182,000	186,000	240,500	250,600
Butte	27,300	29,000	1,200	1,400	9,900	10,000	11,100	11,400
Colusa	22,200	23,500	650	700	13,300	14,500	13,950	15,200
Glenn	51,500	55,000	12,100	13,200	12,300	12,800	24,400	26,000
Sacramento	109,000	130,000	21,000	27,000	27,700	29,700	48,700	56,700
Solano	34,900	33,000	1,100	1,500	12,800	12,000	13,900	13,500
Sutter	11,000	12,500	850	1,500	3,800	4,400	4,650	5,900
Tehama	53,100	56,000	3,400	3,300	30,800	32,000	34,200	35,300
Yolo	15,100	16,000	700	900	6,200	6,600	6,900	7,500
Yuba	39,900	45,000	1,500	1,500	6,200	6,000	7,700	7,500
	364,000	400,000	42,500	51,000	123,000	128,000	165,500	179,000
Fresno	354,000	374,000	50,000	50,000	37,800	38,000	87,800	88,000
Kern	212,000	196,000	17,000	17,000	51,000	50,000	68,000	67,000
Kings	202,000	203,000	70,000	71,000	3,000	3,500	73,000	74,500
Madera	101,000	98,000	19,000	20,000	15,300	17,000	34,300	37,000
Merced	323,000	316,000	100,000	100,000	40,900	40,000	140,900	140,000
San Joaquin	253,000	241,000	62,000	63,000	34,200	33,000	96,200	96,000
Stanislaus	293,000	281,000	100,000	106,000	33,700	34,000	133,700	140,000
Tulare	333,000	342,000	153,000	165,000	30,100	31,500	183,100	196,500
	2,071,000	2,051,000	571,000	592,000	246,000	247,000	817,000	839,000
Alpine	7,900	7,800	—	—	1,900	2,000	1,900	2,000
Amador	16,200	19,500	100	50	7,100	7,600	7,200	7,650
Calaveras	30,300	28,500	50	50	14,300	14,200	14,350	14,250
El Dorado	15,200	16,500	150	100	9,000	9,400	9,150	9,500
Inyo	19,800	23,000	50	50	10,700	10,700	10,750	10,750
Mariposa	23,200	25,000	100	50	13,300	13,600	13,400	13,650
Mono	5,100	7,000	—	—	2,400	2,400	2,400	2,400
Nevada	5,500	6,500	—	—	3,500	4,000	3,500	4,000
Placer	26,300	28,000	700	1,000	12,300	13,600	13,000	14,600
Sierra	8,800	10,700	—	50	4,800	5,500	4,800	5,550
Tuolumne	15,700	16,500	50	50	7,700	8,500	7,750	8,550
	174,000	189,000	1,200	1,400	87,000	91,500	88,200	92,900
Imperial	259,000	290,000	500	400	2,600	2,000	3,100	2,400
Los Angeles	35,000	35,000	3,000	3,600	3,100	3,000	6,100	6,600
Orange	10,100	9,000	—	—	5,100	4,800	5,100	4,800
Riverside	190,000	181,000	103,000	103,000	2,600	2,500	105,600	105,500
San Bernardino	319,000	318,000	181,000	164,000	5,600	5,400	186,600	169,400
San Diego	54,000	49,000	13,000	13,200	10,200	8,300	23,200	21,500
Santa Barbara	110,000	109,000	4,000	4,200	35,500	33,000	39,500	37,200
Ventura	15,900	19,000	2,500	2,600	8,300	7,000	10,800	9,600
	993,000	1,010,000	307,000	291,000	73,000	66,000	380,000	357,000
STATE	4,650,000	4,700,000	1,005,000	1,025,000	915,000	925,000	1,920,000	1,950,000

1/ Includes 435,000 cattle in feedlots being finished for slaughter market.
2/ Includes 485,000 cattle in feedlots being finished for slaughter market.

TABLE 21—Sheep and lambs inventory, supply, and disposition, California, 1984-88 1/

Year	Beginning Inventory January 1	Lamb Crop	Inshipments	Total Supply	Marketings 2/		Farm Slaughter	Deaths		Ending Inventory January 1 (Following Yr)
					Sheep	Lambs		Sheep	Lambs	
	1,000 Head									
1984	1,115	720	191	2,026	89	737	23	37	75	1,065
1985	1,065	690	165	1,920	87	629	25	44	70	1,065
1986	1,065	630	198	1,893	111	685	24	43	50	980
1987	980	625	403	2,008	45	843	13	57	60	990
1988	990	590	231	1,811	41	745	10	37	38	940

1/ Balance sheet estimates: The sum of inventory at beginning of year (January 1), lamb crop, and inshipments is equal to the sum of marketings, farm slaughter, deaths, and end-of-year inventory.

2/ Includes custom slaughter for use on farms where produced, but excludes interfarm sales within the State.

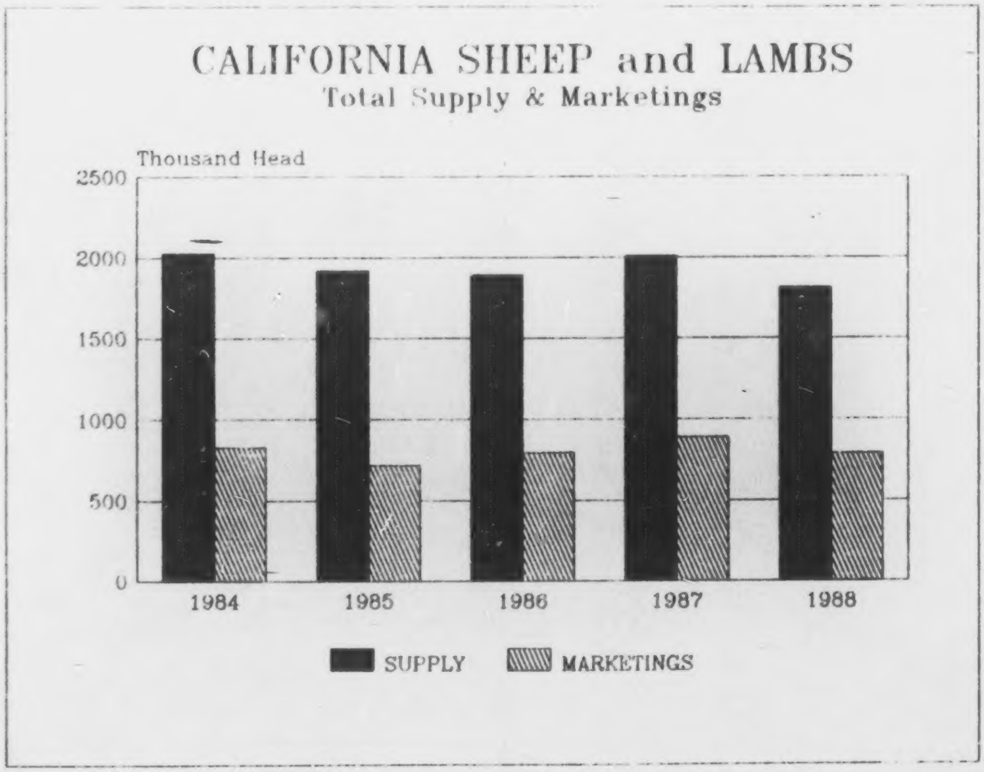

TABLE 22—Sheep and lambs on farms January 1, California, 1985-89

Year	All Sheep	On Feed For Market	Stock Sheep				
			Total	Ewes 1 Yr. +	Ewe Lambs	Wethers & Ram Lambs	Wethers & Rams 1 Yr.+
	1,000 Head						
1985	1,065	195	870	770	63	15	22
1986	1,065	205	860	725	89	23	23
1987	980	185	795	685	69	16	25
1988	990	190	800	685	75	15	25
1989	940	160	780	632	100	24	24

TABLE 23—Ewes on farms and lambs docked, California, 1985-89

Year	Ewes 1 Yr. + January 1	Lambs Docked	Lambs Docked as % of Ewes 1 Yr. +
	1,000 Head		Percent
1985	770	690	90
1986	725	630	87
1987	685	625	91
1988	685	590	86
1989	632	—	—

TABLE 24—Sheep and lambs shorn, wool production and wool value California, 1984-88

Year	Sheep and Lambs Shorn	Wool Produced		Wool Value
		Per Animal	Total	Per Pound
	1,000 Head	Pounds	1,000 Pounds	Dollars
1984	1,277	7.3	9,382	.810
1985	1,133	7.6	8,647	.630
1986	1,088	7.6	8,229	.660
1987	1,020	7.1	7,241	.870
1988	955	7.4	7,103	1.430

TABLE 25 -- Sheep and lambs slaughtered under Federal and State inspection, California, 1984-88

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Total 1/
	1,000 Head												
1984	110	122	140	128	128	120	106	120	104	120	107	97	1,402
1985	105	101	124	106	130	96	96	98	84	87	73	74	1,173
1986	75	77	95	100	84	66	72	74	74	60	46	55	877
1987	64	75	69	80	70	73	83	72	81	76	66	74	883
1988	66	75	86	69	69	71	66	70	59	54	55	46	785

1/ Totals may not equal sum of parts due to rounding.

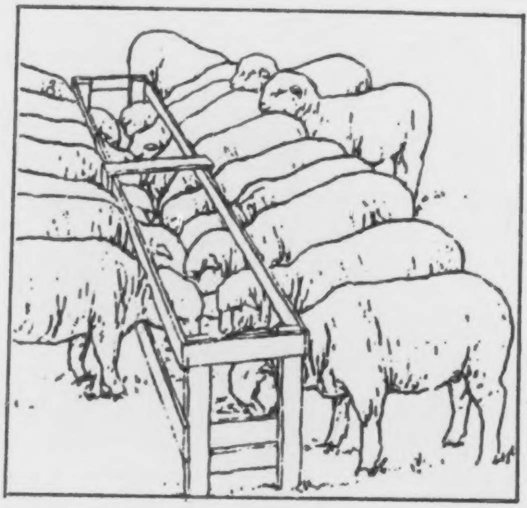

TABLE 26 — Sheep and Lambs, average prices received by farmers, California 1984-88

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual Average
	Dollars Per Cwt.												
	SHEEP												
1984	19.80	21.70	18.30	17.70	15.80	16.30	15.70	17.80	15.80	16.20	20.50	18.90	17.40
1985	19.90	21.90	27.70	29.60	21.00	22.10	23.80	25.20	22.80	18.50	19.40	23.30	23.10
1986	30.00	24.70	23.60	22.20	19.20	23.60	24.90	23.30	22.90	22.30	21.10	23.40	23.20
1987	24.30	25.40	25.30	24.40	22.40	21.90	24.10	26.10	24.70	25.80	29.60	32.70	25.10
1988	34.40	27.70	30.60	21.50	19.20	20.40	27.60	21.40	19.70	19.30	19.00	20.90	23.60
	LAMBS												
1984	60.60	60.00	59.60	61.30	58.90	56.70	58.60	59.10	60.00	60.80	60.90	60.20	59.70
1985	62.40	64.50	65.00	69.00	73.80	70.40	68.10	70.50	71.10	69.10	66.40	66.90	68.30
1986	64.30	65.00	64.30	65.10	72.80	74.00	71.60	70.30	66.80	64.50	75.80	72.50	68.60
1987	73.50	73.80	76.00	80.00	85.60	84.10	78.20	76.50	71.90	63.30	59.90	67.00	74.90
1988	75.70	82.50	74.60	81.00	77.30	51.30	57.30	58.10	61.80	63.80	65.50	67.10	70.30

TABLE 27 — SHEEP COUNTY ESTIMATES: Number of Head, January 1, California, 1985-89

Counties	Stock Sheep and Lambs				
	1985	1986	1987	1988	1989
	Number of Head				
Del Norte	500	500	500	400	300
Humboldt	15,000	20,000	20,500	19,000	19,000
Mendocino	29,100	27,500	25,000	23,000	23,000
	44,600	48,000	46,000	42,400	42,300
Shasta	2,600	2,200	2,000	1,700	2,200
Siskiyou	7,400	6,600	6,800	6,900	6,200
Trinity	200	200	200	100	200
	10,200	9,000	9,000	8,700	8,600
Lassen	2,500	2,600	2,500	1,600	3,100
Modoc	12,500	12,700	14,700	11,000	8,000
Plumas	200	200	300	300	400
	15,200	15,500	17,500	12,900	11,500
Alameda	2,000	1,800	1,000	1,900	1,300
Contra Costa	200	200	200	300	300
Lake	2,000	2,100	1,800	1,700	1,600
Marin	9,500	9,800	11,000	11,000	12,000
Monterey	3,900	2,900	2,300	3,000	3,000
Napa	1,200	1,200	1,200	1,200	1,400
San Benito	1,200	900	600	800	900
San Francisco	—	—	—	—	—
San Luis Obispo	24,600	25,000	19,000	20,000	15,000
San Mateo	600	300	200	300	500
Santa Clara	3,100	2,300	2,400	1,500	4,200
Santa Cruz	600	500	300	300	300
Sonoma	29,100	26,000	27,000	25,000	26,000
	78,000	73,000	67,000	67,000	66,500
Butte	7,900	6,700	7,600	8,000	7,800
Colusa	10,100	11,800	14,600	14,000	12,000
Glenn	24,000	18,600	21,000	19,000	19,000
Sacramento	9,400	10,600	9,800	8,100	11,000
Solano	66,000	75,500	70,000	70,000	77,000
Sutter	33,300	38,000	40,000	32,000	25,000
Tehama	64,900	58,600	56,000	51,000	38,000
Yolo	20,900	19,200	16,000	18,000	22,000
Yuba	2,500	3,000	2,000	1,300	3,600
	239,000	242,000	237,000	221,400	215,400
Fresno	67,000	71,000	80,000	95,000	67,000
Kern	168,000	172,000	138,000	155,000	157,000
Kings	16,000	16,000	18,000	10,000	19,000
Madera	29,900	30,000	20,000	17,000	15,000
Merced	32,000	34,000	25,000	44,000	44,000
San Joaquin	27,900	24,000	21,000	25,000	29,000
Stanislaus	5,000	5,700	3,800	3,800	3,400
Tulare	2,200	2,300	2,200	3,100	1,800
	348,000	355,000	308,000	352,900	336,200
Alpine	100	100	100	—	—
Amador	1,600	1,800	1,600	1,500	1,200
Calaveras	1,500	1,300	1,200	1,100	1,200
El Dorado	1,700	1,900	1,500	1,500	1,400
Inyo	1,500	1,200	900	1,400	1,100
Mariposa	2,000	1,800	1,000	1,000	1,900
Mono	8,000	7,500	7,000	7,500	8,800
Nevada	1,100	1,500	900	1,000	1,000
Placer	11,200	11,000	11,000	12,000	15,000
Sierra	200	200	200	—	—
Tuolumne	1,100	1,200	1,100	1,200	800
	30,000	29,500	26,500	28,200	32,400
Imperial	29,900	23,000	27,000	11,000	200
Los Angeles	27,000	20,000	18,000	18,000	20,000
Orange	200	300	200	—	100
Riverside	21,100	22,500	21,000	12,000	22,000
San Bernardino	16,300	12,100	10,000	20,000	20,000
San Diego	1,000	1,200	1,000	1,000	1,200
Santa Barbara	7,500	7,000	6,400	4,000	3,400
Ventura	2,000	1,900	400	500	200
	105,000	88,000	84,000	66,500	67,100
STATE	870,000	860,000	795,000	800,000	780,000

TABLE 28—Hogs and pigs, inventory, supply, and disposition, California, 1984-88

Year	Beginning Inventory December 1 (Prev. Yr.)	Pig Crop		Inshipments	Total Supply	Marketings 2/	Farm Slaughter 3/	Deaths	Ending Inventory December 1
		Dec.-May	Jun.-Nov.						
	1,000 Head								
1984	155	121	113	30	419	245	18	16	140
1985	140	117	108	27	392	217	16	14	145
1986	145	133	131	21	430	250	14	16	150
1987	150	123	116	20	409	249	14	16	130
1988	130	118	105	73	426	270	18	18	120

1/ Balance sheet estimates: The sum of inventory at beginning of year (December 1) pig crop, and inshipments is equal to the sum of marketings, farm slaughter, deaths, and end-of-year inventory.

2/ Includes custom slaughter for use on farms where produced, but excludes interfarm sales within the State.

3/ Excludes custom slaughter for farms at commercial establishments.

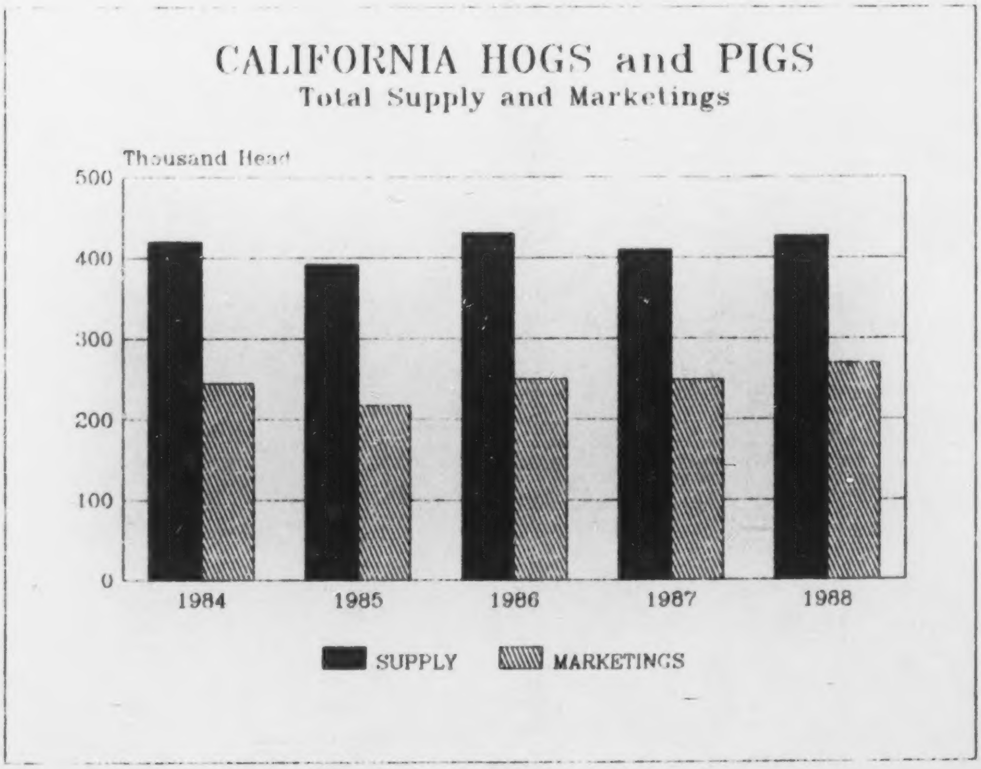

TABLE 29 — Hogs and pigs on farms, December 1, California, 1984-88

Year	Total Hogs and Pigs	Breeding Hogs and Pigs	Market Hogs				
			Under 60 Pounds	60-119 Pounds	120-179 Pounds	180 Pounds and Over	Total
	1,000 Head						
1984	140	21	46	31	24	18	119
1985	145	22	48	31	23	21	123
1986	150	27	53	31	21	18	123
1987	130	23	46	26	19	16	107
1988	120	21	42	26	17	14	99

TABLE 30 — Sows farrowed and pigs saved, California, 1984-88

Year	Spring (Dec. 1 to June 1)			Fall (June 1 to Dec. 1)			Total Pigs Saved
	Sows Farrowed	Pigs Saved	Pigs per Litter	Sows Farrowed	Pigs Saved	Pigs per Litter	
	1,000 Head		Number	1,000 Head		Number	1,000 Head
1984	17	121	7.1	15	113	7.5	234
1985	16	117	7.3	14	108	7.7	225
1986	18	133	7.4	17	131	7.7	264
1987	16	123	7.7	15	116	7.7	239
1988	16	118	7.4	14	105	7.5	223

TABLE 31 — Hogs and pigs slaughtered under Federal and State inspection, California, 1984-88

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Total 1/
	1,000 Head												
1984	158	145	169	166	171	160	163	173	146	183	158	167	1,959
1985	179	152	167	176	172	160	180	180	150	57	66	134	1,772
1986	158	135	154	162	152	148	153	106	127	161	127	152	1,734
1987	150	134	149	148	142	147	146	139	158	163	157	183	1,816
1988	170	173	187	164	164	173	161	199	190	185	184	188	2,137

1/ Totals may not equal sum of parts due to rounding.

TABLE 32 — All hogs, number on farms, by county, December 1, California 1984-88

County	1984	1985	1986	1987	1988
	Number of Head				
Del Norte	300	300	300	300	200
Humboldt	200	300	300	300	400
Mendocino	800	600	600	600	400
	1,300	1,200	1,200	1,200	1,000
Shasta	500	700	700	600	700
Siskiyou	1,000	900	900	800	300
Trinity	100	100	100	100	100
	1,600	1,700	1,700	1,500	1,100
Lassen	200	200	200	100	50
Modoc	1,200	1,300	1,400	1,600	500
Plumas	100	100	100	100	50
	1,500	1,600	1,700	1,800	600
Alameda	300	1,100	1,000	1,000	300
Contra Costa	1,700	1,400	1,300	1,000	700
Lake	200	200	300	250	100
Marin	200	200	300	200	100
Monterey	2,600	1,600	1,500	1,000	250
Napa	500	400	300	200	200
San Benito	100	100	500	400	900
San Francisco	—	—	—	—	—
San Luis Obispo	4,400	4,000	3,500	3,200	2,400
San Mateo	100	100	100	100	50
Santa Clara	200	200	200	150	100
Santa Cruz	1,300	1,100	1,000	800	200
Sonoma	4,300	4,300	5,000	4,700	4,700
	15,900	14,700	15,000	13,000	10,000
Butte	7,400	7,400	7,100	7,100	7,700
Colusa	200	700	600	500	100
Glenn	2,900	2,500	2,500	2,000	700
Sacramento	900	900	800	800	900
Solano	100	200	100	100	100
Sutter	1,300	1,100	1,000	700	200
Tehama	200	200	200	200	200
Yolo	1,700	1,600	1,500	1,200	2,500
Yuba	800	500	600	400	200
	15,500	15,100	14,400	13,000	12,600
Fresno	5,700	5,400	5,200	4,500	7,700
Kern	5,000	4,300	4,800	4,000	3,500
Kings	2,300	2,500	2,600	500	2,800
Madera	1,500	2,000	2,200	2,000	1,300
Merced	27,000	30,000	32,000	28,500	26,200
San Joaquin	5,800	6,000	5,800	5,000	2,000
Stanislaus	8,500	9,000	9,000	8,500	3,000
Tulare	35,000	40,000	44,000	34,000	35,500
	90,800	99,200	105,600	87,000	82,000
Alpine	—	—	—	—	—
Amador	100	100	100	100	50
Calaveras	1,000	1,000	800	650	400
El Dorado	800	600	600	650	300
Inyo	—	—	—	50	50
Mariposa	100	200	100	50	50
Mono	—	—	—	—	—
Nevada	100	300	100	150	50
Placer	400	300	300	300	100
Sierra	—	—	—	—	—
Tuolumne	100	100	100	50	100
	2,600	2,600	2,100	2,000	1,100
Imperial	300	1,000	400	1,500	200
Los Angeles	2,600	2,400	2,600	2,000	5,000
Orange	100	100	100	100	200
Riverside	400	500	400	300	100
San Bernardino	3,000	1,000	1,500	4,300	3,400
San Diego	2,200	1,700	1,400	1,000	500
Santa Barbara	1,000	800	700	500	500
Ventura	1,200	1,400	1,200	800	1,700
	10,800	8,900	8,300	10,500	11,600
STATE	140,000	145,000	150,000	130,000	120,000

TABLE 33 — BEE COLONIES AND HONEY PRODUCTION: California, 1986-1988

Year	Number of Colonies	Yield Per Colony	Production	Stocks 1/ Dec. 15	Average Price Per Pound	Value of Production
—	1,000 Colonies	Lbs.	- - 1,000 Lbs. - -		Cents	1,000 Dollars
1986	520	52	27,040	3,515	54	14,602
1987	500	33	16,500	1,650	49	8,085
1988	520	40	20,800	1,872	48	9,984

1/ Does not include stocks under loan.

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FOOD & AGRICULTURE
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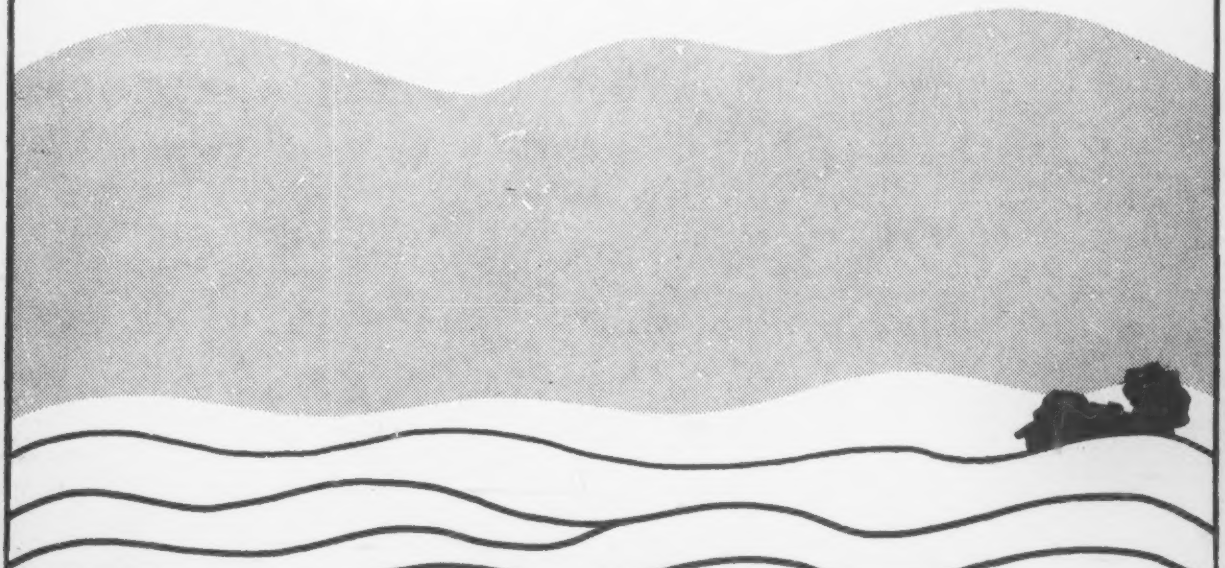
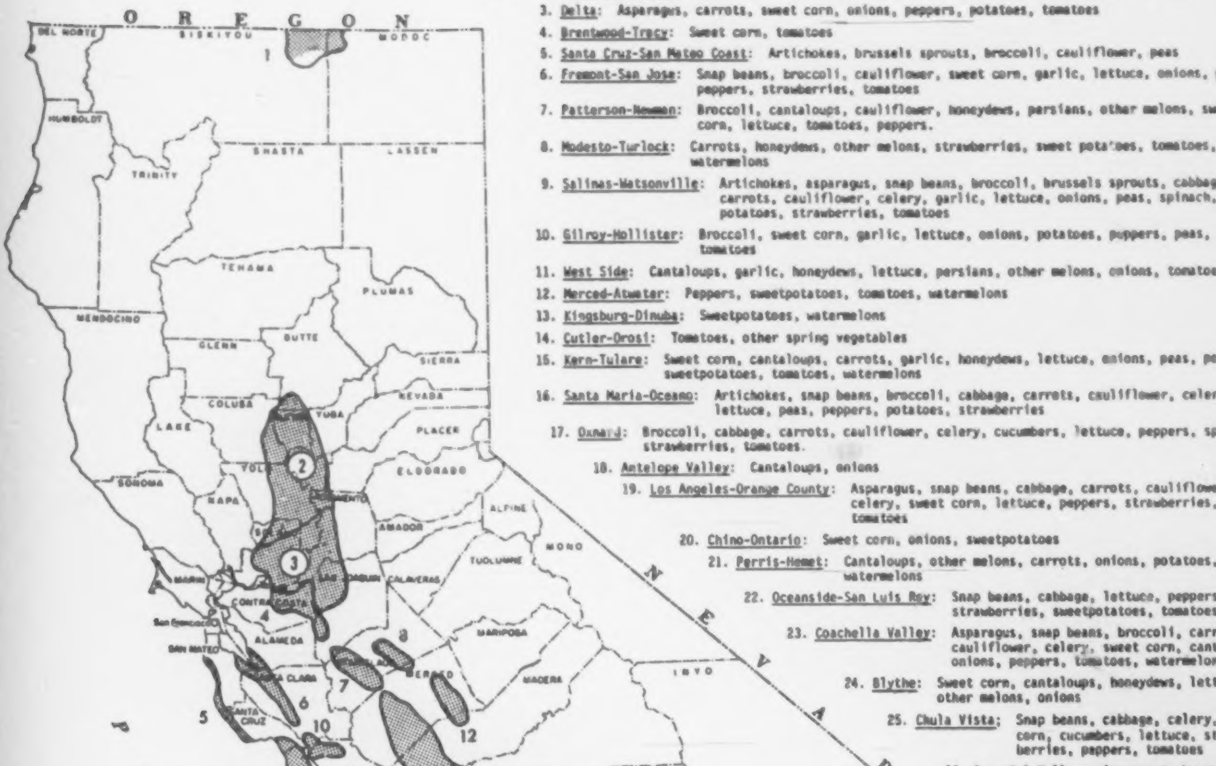
CALIFORNIA VEGETABLE CROPS

•ACREAGE, PRODUCTION & VALUE	1979-88
•COUNTY ACREAGE	1987-88



California Agricultural Statistics Service

CALIFORNIA'S MAJOR FRESH MARKET VEGETABLE, MELON AND POTATO PRODUCING DISTRICTS


OREGON
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TRINITY
TEHAMA
PLUMAS
MENDOCINO
GLENN
BUTTE
SIERRA
COLUSA
YUBA
NEVADA
LAKE
PLACER
SONOMA
YOLO
ELDORADO
NAPA
ALPINE
AMADOR
MONO
TUOLUMNE
MARIN
CONTRA COSTA
SAN JOAQUIN
CALAVERAS
San Francisco
ALAMEDA
MARIPOSA
SAN MATEO
SANTA CLARA
MERCED
MADERA
INYO
SANTA CRUZ
SAN BENITO
FRESNO
TULARE
MONTEREY
KINGS
SAN LUIS OBISPO
KERN
SAN BERNARDINO
SANTA BARBARA
VENTURA
LOS ANGELES
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1. Tulelake-Butte Valley: Onions, potatoes
2. Sacramento Valley: Sweet corn, honeydews, persians, other melons, tomatoes, watermelons
3. Delta: Asparagus, carrots, sweet corn, onions, peppers, potatoes, tomatoes
4. Brentwood-Tracy: Sweet corn, tomatoes
5. Santa Cruz-San Mateo Coast: Artichokes, brussels sprouts, broccoli, cauliflower, peas
6. Fremont-San Jose: Snap beans, broccoli, cauliflower, sweet corn, garlic, lettuce, onions, peas, peppers, strawberries, tomatoes
7. Patterson-Newman: Broccoli, cantaloups, cauliflower, honeydews, persians, other melons, sweet corn, lettuce, tomatoes, peppers.
8. Modesto-Turlock: Carrots, honeydews, other melons, strawberries, sweet potatoes, tomatoes, watermelons
9. Salinas-Watsonville: Artichokes, asparagus, snap beans, broccoli, brussels sprouts, cabbage, carrots, cauliflower, celery, garlic, lettuce, onions, peas, spinach, potatoes, strawberries, tomatoes
10. Gilroy-Hollister: Broccoli, sweet corn, garlic, lettuce, onions, potatoes, puppers, peas, tomatoes
11. West Side: Cantaloups, garlic, honeydews, lettuce, persians, other melons, onions, tomatoes
12. Merced-Atwater: Peppers, sweetpotatoes, tomatoes, watermelons
13. Kingsburg-Dinuba: Sweetpotatoes, watermelons
14. Cutler-Orosi: Tomatoes, other spring vegetables
15. Kern-Tulare: Sweet corn, cantaloups, carrots, garlic, honeydews, lettuce, onions, peas, potatoes sweetpotatoes, tomatoes, watermelons
16. Santa Maria-Oceano: Artichokes, snap beans, broccoli, cabbage, carrots, cauliflower, celery, lettuce, peas, peppers, potatoes, strawberries
17. Oxnard: Broccoli, cabbage, carrots, cauliflower, celery, cucumbers, lettuce, peppers, spinach strawberries, tomatoes.
18. Antelope Valley: Cantaloups, onions
19. Los Angeles-Orange County: Asparagus, snap beans, cabbage, carrots, cauliflower, celery, sweet corn, lettuce, peppers, strawberries, tomatoes
20. Chino-Ontario: Sweet corn, onions, sweetpotatoes
21. Perris-Hemet: Cantaloups, other melons, carrots, onions, potatoes, watermelons
22. Oceanside-San Luis Rey: Snap beans, cabbage, lettuce, peppers, strawberries, sweetpotatoes, tomatoes
23. Coachella Valley: Asparagus, snap beans, broccoli, carrots, cauliflower, celery, sweet corn, cantaloups onions, peppers, tomatoes, watermelons
24. Blythe: Sweet corn, cantaloups, honeydews, lettuce, other melons, onions
25. Chula Vista: Snap beans, cabbage, celery, sweet corn, cucumbers, lettuce, strawberries, peppers, tomatoes
26. Imperial Valley: Asparagus, broccoli, cabbage, cantaloups, carrots, cauliflower, celery, cucumbers, garlic, lettuce, onions tomatoes, watermelons

CALIFORNIA VEGETABLE CROPS

This bulletin, prepared annually, contains the most recent estimates of acreage, production, and value for principal commercial vegetables, melons, and strawberries grown in California for the period 1979-88. Harvested acreage by county is included for 1987-88. Also included are tables showing 1987-88 monthly prices and sales for a number of the fresh market vegetable crops.

The vegetable and melon estimates encompass commercial production, excluding home and farm gardens. Vegetables grown for seed are also excluded. Potato and sweetpotato estimates although shown, are excluded from total vegetables. Potato estimates are also published in the annual Field Crop Bulletin.

Prices for processing crops and processed segments of dual utilization crops are based upon equivalent returns at the processing plant door. For fresh market sales, the price is on a packed and loaded basis, F.O.B. shipping point.

Vegetable acreages that are not included in the official 1988 USDA/CDFA estimating program are in this report. These crops, although not a complete listing, are reported by the County Agricultural Commissioners. Sufficient requests for this acreage data prompted us to include these "miscellaneous" vegetables.

Data presented in this publication are made possible with the cooperation of growers, processors, shippers, County Agricultural Commissioners' Offices, and other representatives of the California vegetable industry. Their cooperation is appreciated.

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AUGUST 1989

United States Department of Agriculture
National Agricultural Statistics Service

State of California

Department of Food and Agriculture
Agricultural Statistics Branch

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Cauliflower	7-8	15
Celery	8	15
Corn, Sweet	8-9	15
Crenshaw Melons	9-10	--
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Honeydew Melons	10	--
Lettuce	9	15
Mushrooms	10	--
Onions	10-11	16
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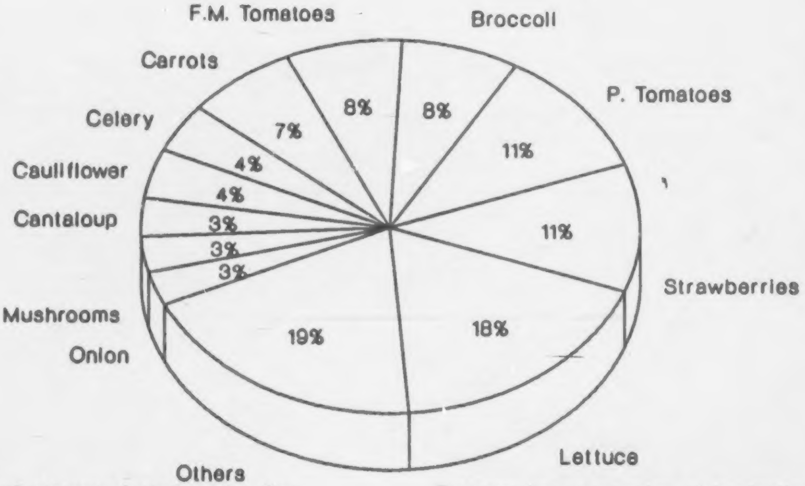
1988 SUMMARY

California produced 16.1 million tons of vegetables from 1,120 thousand acres in 1988. Value of production was $3.702 billion compared to $3.747 billion in 1987. Season average prices were generally lower in 1988, compared to 1987.

In 1988, California produced 54 percent of the principal U.S. fresh market crops and 58 percent of the major U.S. processing crops.

CALIFORNIA'S LEADING VEGETABLE CROPS
1988



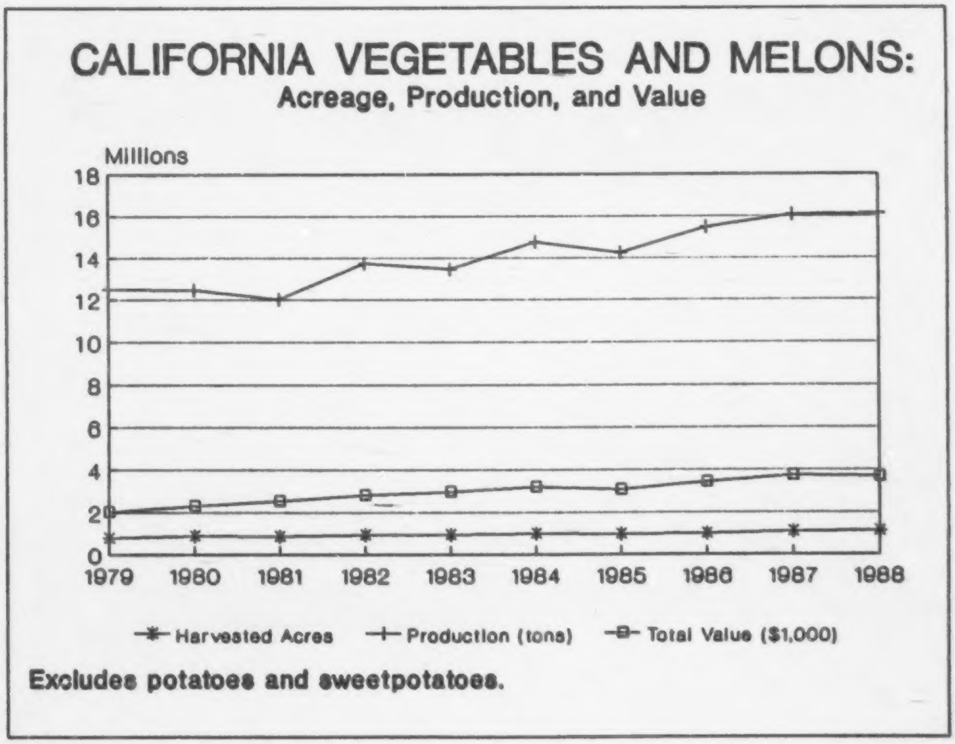
"Others" category includes miscellaneous vegetables, berries, and melons.

Percents based on value of production excluding potatoes and sweetpotatoes.

CALIFORNIA VEGETABLES AND MELONS:
Acreage, Production and Value, 1979-88 a/

Crop Year	Harvested Acreage	Production	Value Per Acre	Total Value
	Acres	Tons	Dollars	$1,000
1979	804,148	12,480,400	2,509	2,017,334
1980	903,701	12,463,250	2,543	2,298,061
1981	870,360	12,021,250	2,924	2,544,890
1982	941,847	13,749,400	3,005	2,830,223
1983	952,706	13,458,100	3,115	2,967,300
1984	995,631	14,767,550	3,209	3,194,713
1985	985,678	14,247,800	3,114	3,069,381
1986	994,498	15,482,300	3,454	3,435,157
1987	1,093,305	16,082,050	3,427	3,746,526
1988	1,117,099	16,103,750	3,313	3,701,745

a/ Excludes potatoes and sweetpotatoes.



Excludes potatoes and sweetpotatoes.

CALIFORNIA VEGETABLE CROPS SUMMARY: Processing Crops, 1979-88

Crop	Year	Harvested Acreage	Average Yield Tons	Production	Price Per Ton a/		Total Value (000)
				Tons	First Del. Point	Proc. Plant Door	
Tomatoes for Processing	1979	250,000	25.40	6,350,000	$56.70	$ 67.50	$428,625
	1980	208,300	26.60	5,540,780	47.70	59.70	330,785
	1981	204,300	24.00	4,903,200	50.80	64.70	317,237
	1982	232,000	26.50	6,148,000	55.60	68.50	421,138
	1983	233,500	25.58	5,972,930	53.70	65.70	392,422
	1984	239,700	27.50	6,591,750	52.00	64.80	427,145
	1985	217,000	28.12	6,102,040	51.40	64.10	391,141
	1986	210,400	30.80	6,480,320	51.00	62.20	403,076
	1987	214,000	31.32	6,702,480	46.40	57.20	383,382
	1988	226,100	28.96	6,547,860	57.20	58.90	385,669
Cucumbers for Processing	1979	b/	---	---	---	---	---
	1980	b/	---	---	---	---	---
	1981	b/	---	---	---	---	---
	1982	b/	---	---	---	---	---
	1983	b/	---	---	---	---	---
	1984	3,300	17.10	56,430	---	232.00	13,092
	1985	4,100	17.92	73,470	---	189.00	13,886
	1986	4,000	16.17	64,680	---	200.00	12,936
	1987	4,100	15.00	61,500	---	198.00	12,177
	1988	3,800	18.16	69,010	---	213.00	14,699
Chili Peppers Dried	1979	5,820	2.05	11,900	---	1,030.00	12,260
	1980	6,300	1.90	11,950	---	1,080.00	12,906
	1981	7,020	2.18	15,290	---	1,099.00	16,804
	1982	4,640	1.93	8,960	---	1,113.00	9,972
	1983	4,260	1.82	7,750	---	1,130.00	8,758
	1984	3,920	2.57	10,080	---	1,136.00	11,451
	1985	3,670	2.73	10,030	---	1,094.00	10,973
	1986	3,100	2.82	8,740	---	1,070.00	9,352
	1987	2,990	2.77	8,290	---	1,147.00	9,510
	1988	3,460	2.84	9,840	---	977.00	9,618

a/ The processed price is based on equivalent returns at the processing plant door. The fresh market price is on a packed and loaded basis, f.o.b. shipping point.

b/ Estimates began in 1984.

CALIFORNIA VEGETABLE CROPS SUMMARY: Fresh Market and Dual Usage Crops, 1979-88

Crop	Year	Harvested Acreage	Average Yield (Cwt.)	Production ---------- 1,000 Cwt.	Price Per Cwt. a/	Total Value (000)
ASPARAGUS Fresh Market	1979	---	---	480	$ 62.40	$ 29,952
	1980	---	---	631	55.40	34,957
	1981	---	---	644	69.60	44,822
	1982	---	---	591	67.40	39,833
	1983	---	---	557	83.70	46,621
	1984	---	---	739	74.40	54,982
	1985	---	---	818	83.30	68,139
	1986	---	---	990	72.10	71,379
	1987	---	---	1,055	66.10	69,736
	1988	---	---	b/	b/	b/
Processing	1979	---	---	444	41.90	18,604
	1980	---	---	150	39.00	5,850
	1981	---	---	175	40.80	7,140
	1982	---	---	208	43.60	9,062
	1983	---	---	79	41.20	3,255
	1984	---	---	116	41.50	4,814
	1985	---	---	168	38.90	6,527
	1986	---	---	106	39.00	4,134
	1987	---	---	136	37.00	5,010
	1988			b/	b/	b/
Total	1979	26,400	35	924	52.50	48,556
	1980	27,900	28	781	52.20	40,807
	1981	27,300	30	819	63.40	51,962
	1982	29,600	27	799	61.20	48,895
	1983	31,800	20	636	78.40	49,876
	1984	34,200	25	855	69.90	59,796
	1985	35,200	28	986	75.70	74,666
	1986	37,800	29	1,096	68.90	75,513
	1987	39,700	30	1,191	62.80	74,746
	1988	40,100	29	1,163	71.70	83,431
BROCCOLI Fresh Market	1979	---	---	3,135	22.00	68,911
	1980	---	---	3,567	23.10	82,519
	1981	---	---	3,996	25.70	102,620
	1982	---	---	4,748	24.90	118,042
	1983	---	---	5,026	26.80	134,553
	1984	---	---	6,146	23.90	147,016
	1985	---	---	6,415	24.00	153,960
	1986	---	---	7,667	21.40	164,074
	1987	---	---	7,830	21.40	167,562
	1988	---	---	9,167	23.90	219,091
Processing	1979	---	---	2,960	16.00	47,360
	1980	---	---	2,857	18.80	53,712

CALIFORNIA VEGETABLE CROPS SUMMARY: Fresh Market and Dual Usage Crops, 1979-88

Crop	Year	Harvested Acreage	Average Yield (Cwt.)	Production ---------- 1,000 Cwt.	Price Per Cwt. a/	Total Value (000)
BROCCOLI	1981	---	---	2,892	$ 18.90	$ 54,659
Processing -	1982	---	---	3,192	19.70	62,882
Continued	1983	---	---	2,526	19.50	49,257
	1984	---	---	3,294	19.70	64,892
	1985	---	---	3,160	19.40	61,304
	1986	---	---	2,760	18.10	49,956
	1987	---	---	2,500	18.00	45,000
	1988	---	---	2,460	19.10	46,863
Total	1979	68,000	90	6,095	19.10	116,271
	1980	72,600	88	6,424	21.20	136,231
	1981	71,400	96	6,888	22.80	157,279
	1982	81,800	97	7,940	22.80	180,924
	1983	82,000	92	7,552	24.30	183,810
	1984	95,700	99	9,440	22.40	211,908
	1985	97,700	98	9,575	22.50	215,264
	1986	106,400	98	10,427	20.50	214,030
	1987	107,600	96	10,330	20.60	212,562
	1988	101,100	115	11,627	22.90	265,954
BUSHBERRIES	1979	480	58	28	61.90	1,734
Boysenberries	1980	550	109	60	42.60	2,554
	1981	690	49	34	39.10	1,329
	1982	665	66	44	38.20	1,679
	1983	580	53	31	42.80	1,435
	1984	590	66	39	61.90	2,414
	1985	580	72	42	71.60	3,007
	1986	510	64	33	72.20	2,383
	1987	450	74	33	71.60	2,364
	1988	400	53	21	181.60	3,814
Olallieberries	1979	360	86	31	56.60	1,754
	1980	400	90	36	30.70	1,105
	1981	210	62	13	25.50	332
	1982	255	86	22	31.50	694
	1983	210	71	15	45.40	676
	1984	190	84	16	64.30	1,029
	1985	220	95	21	74.40	1,563
	1986	200	90	18	79.50	1,431
	1987	150	106	16	79.70	1,275
	1988	200	110	22	93.40	2,054
Raspberries	1979	110	91	10	169.30	1,693
	1980	110	82	9	213.30	1,920
	1981	140	64	9	142.30	1,281
	1982	190	68	13	168.00	2,184

CALIFORNIA VEGETABLE CROPS SUMMARY: Fresh Market and Dual Usage Crops, 1979-88

Crop	Year	Harvested Acreage	Average Yield (Cwt.)	Production ---------- 1,000 Cwt.	Price Per Cwt. a/	Total Value (000)
BUSHBERRIES Raspberries - Continued	1983	260	69	18	$ 181.00	$ 3,122
	1984	350	74	26	190.00	4,922
	1985	480	83	40	180.00	7,217
	1986	470	100	47	178.00	8,343
	1987	420	81	34	156.60	5,324
	1988	500	112	56	157.20	8,803
Total	1979	950	73	69	75.10	5,181
	1980	1,060	99	105	53.10	5,579
	1981	1,040	54	56	52.50	2,942
	1982	1,110	71	79	57.70	4,557
	1983	1,050	61	64	81.80	5,233
	1984	1,130	68	77	109.00	8,365
	1985	1,280	80	103	114.40	11,787
	1986	1,180	83	98	124.05	12,157
	1987	1,020	81	83	108.00	8,963
	1988	1,100	90	99	148.20	14,671
CARROTS Desert	1979	11,200	229	2,568	8.78	22,537
	1980	11,700	223	2,604	9.39	24,452
	1981	9,100	276	2,511	9.86	24,760
	1982	12,100	246	2,974	10.90	32,841
	1983	12,500	249	3,113	10.30	32,172
	1984	11,000	280	3,080	13.70	42,108
	1985	11,800	250	2,950	10.50	31,109
	1986	12,400	450	5,580	12.50	69,750
	1987	14,500	475	6,888	10.80	74,390
	1988	14,600	450	6,570	11.60	76,212
Non-Desert	1979	25,800	299	7,722	7.77	59,979
	1980	24,900	312	7,781	8.96	69,690
	1981	24,800	291	7,224	10.80	78,146
	1982	26,400	321	8,472	9.83	83,275
	1983	27,500	310	8,515	11.00	93,498
	1984	30,100	295	8,931	11.70	104,252
	1985	28,100	285	8,009	10.60	84,624
	1986	27,600	530	14,628	12.10	176,638
	1987	35,500	525	18,638	10.00	187,054
	1988	36,500	400	14,600	11.70	171,154
Fresh Market	1979	---	---	7,167	10.40	74,771
	1980	---	---	7,973	11.00	87,437
	1981	---	---	8,235	12.00	98,511
	1982	---	---	9,787	11.30	110,757
	1983	---	---	9,220	12.70	117,314
	1984	---	---	9,901	14.00	138,458

CALIFORNIA VEGETABLE CROPS SUMMARY: Fresh Market and Dual Usage Crops, 1979-88

Crop	Year	Harvested Acreage	Average Yield (Cwt.)	Production 1,000 Cwt.	Price Per Cwt. a/	Total Value (000)
CARROTS Fresh Market - Continued	1985	---	---	9,451	$ 11.60	$ 109,565
	1986	---	---	18,410	13.00	239,106
	1987	---	---	24,126	10.60	255,389
	1988	---	---	19,650	12.30	241,020
Processing	1979	---	---	3,123	2.48	7,745
	1980	---	---	2,412	2.78	6,705
	1981	---	---	1,500	2.93	4,395
	1982	---	---	1,659	3.23	5,359
	1983	---	---	2,408	3.47	8,356
	1984	---	---	2,110	3.75	7,902
	1985	---	---	1,508	4.09	6,168
	1986	---	---	1,798	4.05	7,282
	1987	---	---	1,400	4.33	6,055
	1988	---	---	1,520	4.18	6,346
Total	1979	37,000	278	10,290	8.02	82,516
	1980	36,600	284	10,385	9.07	94,142
	1981	33,900	287	9,735	10.60	102,906
	1982	38,500	297	11,446	10.10	116,116
	1983	40,000	291	11,628	10.80	125,670
	1984	41,100	292	12,011	12.20	146,360
	1985	39,900	275	10,959	10.60	115,733
	1986	40,000	505	20,208	12.20	246,388
	1987	50,000	511	25,526	10.20	261,444
	1988	51,100	414	21,170	11.70	247,366
CAULIFLOWER Fresh Market	1979	---	---	1,991	25.80	51,390
	1980	---	---	2,068	28.30	58,456
	1981	---	---	2,548	30.70	78,106
	1982	---	---	2,455	32.30	79,328
	1983	---	---	2,747	32.20	88,522
	1984	---	---	3,670	31.20	114,504
	1985	---	---	3,688	29.90	110,271
	1986	---	---	4,670	28.50	133,095
	1987	---	---	4,661	28.40	132,372
	1988	---	---	5,340	27.60	147,384
Processing	1979	---	---	1,196	10.70	12,797
	1980	---	---	1,100	12.40	13,640
	1981	---	---	1,392	12.70	17,678
	1982	---	---	1,420	13.80	19,525
	1983	---	---	1,218	13.50	16,443
	1984	---	---	1,181	14.60	17,243
	1985	---	---	1,100	14.70	16,170
	1986	---	---	1,160	14.80	17,110
	1987	---	---	960	15.40	14,784
	1988	---	---	900	15.70	14,130

CALIFORNIA VEGETABLE CROPS SUMMARY: Fresh Market and Dual Usage Crops, 1979-88

Crop	Year	Harvested Acreage	Average Yield (Cwt.)	Production ---------- 1,000 Cwt.	Price Per Cwt. a/	Total Value (000)
CAULIFLOWER Total - Continued	1979	33,700	95	3,187	$ 20.10	$ 64,187
	1980	33,900	93	3,168	22.80	72,096
	1981	36,300	109	3,940	24.30	95,784
	1982	40,000	97	3,875	25.50	98,853
	1983	41,900	95	3,965	26.50	104,965
	1984	46,200	105	4,851	27.20	131,747
	1985	45,600	105	4,788	26.40	126,441
	1986	53,000	110	5,830	25.80	150,205
	1987	51,100	110	5,621	26.20	147,156
	1988	48,000	130	6,240	25.90	161,514
CELERY South Coast	1979	11,200	537	6,017	9.19	55,270
	1980	11,200	560	6,271	9.11	57,118
	1981	12,200	587	7,160	8.71	62,399
	1982	11,200	659	7,375	10.20	75,474
	1983	11,400	598	6,817	12.50	85,114
	1984	10,700	643	6,882	14.20	97,484
	1985	11,500	610	7,015	9.46	66,347
	1986	11,700	570	6,669	11.50	77,009
	1987	11,400	560	6,384	12.10	77,498
	1988	11,500	615	7,073	11.00	77,646
Central Coast	1979	9,900	553	5,471	7.28	39,799
	1980	9,750	581	5,667	8.32	47,146
	1981	10,300	567	5,844	10.32	60,415
	1982	11,100	589	6,542	7.74	50,623
	1983	9,000	640	5,763	13.40	77,262
	1984	9,900	610	6,030	8.73	52,618
	1985	9,700	640	6,208	11.00	68,328
	1986	9,700	620	6,014	11.80	70,755
	1987	9,900	635	6,287	9.36	58,850
	1988	8,800	705	6,204	11.30	70,094
Total	1979	21,100	544	11,488	8.28	95,069
	1980	20,950	570	11,938	8.73	104,264
	1981	22,500	578	13,004	9.44	122,814
	1982	22,300	624	13,917	9.06	126,097
	1983	20,400	617	12,580	12.90	162,376
	1984	20,600	627	12,912	11.60	150,102
	1985	21,200	624	13,223	10.20	134,675
	1986	21,400	593	12,683	11.70	147,764
	1987	21,300	595	12,671	10.80	136,348
	1988	20,300	654	13,277	11.10	147,740
CORN, SWEET Fresh Market	1979	13,100	106	1,384	10.20	14,062
	1980	13,150	106	1,400	10.80	15,126

CALIFORNIA VEGETABLE CROPS SUMMARY: Fresh Market and Dual Usage Crops, 1979-88

Crop	Year	Harvested Acreage	Average Yield (Cwt.)	Production ---------- 1,000 Cwt.	Price Per Cwt. a/	Total Value (000)
CORN, SWEET Fresh Market - Continued	1981	13,900	108	1,501	$ 13.20	$ 19,784
	1982	13,800	102	1,406	12.10	16,977
	1983	14,600	108	1,576	12.40	19,479
	1984	14,200	107	1,521	14.60	22,201
	1985	14,700	105	1,544	14.30	22,079
	1986	15,000	100	1,500	16.10	24,150
	1987	16,000	95	1,520	13.30	20,216
	1988	15,000	130	1,950	15.10	29,445
LETTUCE	1979	160,500	278	44,673	8.25	368,521
	1980	163,600	287	46,934	8.23	386,096
	1981	156,300	294	46,027	10.10	465,205
	1982	144,900	306	44,342	10.80	478,974
	1983	151,200	292	44,078	12.30	541,803
	1984	150,900	313	47,273	10.70	505,876
	1985	145,500	295	42,923	11.00	472,153
	1986	145,500	325	47,288	11.50	543,812
	1987	157,100	315	49,487	15.10	747,254
	1988	159,500	325	51,838	12.20	632,424
MELONS						
Cantaloup	1979	52,100	151	7,865	10.40	81,475
	1980	51,900	156	8,084	12.70	102,286
	1981	55,600	175	9,730	13.30	129,409
	1982	61,500	160	9,840	11.60	114,144
	1983	62,200	150	9,330	13.30	124,089
	1984	64,000	148	9,483	13.80	130,865
	1985	75,100	155	11,641	11.30	131,543
	1986	79,100	160	12,656	12.40	156,934
	1987	85,100	150	12,765	11.50	146,798
	1988	84,500	150	12,675	9.00	114,075
Casaba and Santa Claus	1979	1,200	140	168	11.30	1,898
	1980	1,400	170	238	10.20	2,428
	1981	1,100	140	154	10.40	1,602
	1982	1,400	180	252	11.80	2,974
	1983	1,400	180	252	12.20	3,074
	1984	1,800	220	396	15.00	5,940
	1985	1,700	170	289	11.50	3,324
	1986	2,300	190	437	15.00	6,555
	1987	2,500	180	450	10.80	4,860
	1988	2,500	200	500	12.00	6,000
Crenshaw	1979	1,100	165	182	13.70	2,493
	1980	1,000	140	140	17.90	2,506
	1981	900	135	122	19.70	2,403

CALIFORNIA VEGETABLE CROPS SUMMARY: Fresh Market and Dual Usage Crops, 1979-88

Crop	Year	Harvested Acreage	Average Yield (Cwt.)	Production 1,000 Cwt.	Price Per Cwt. a/	Total Value (000)
MELONS Crenshaw - Continued	1982	950	155	147	$ 16.00	$ 2,352
	1983	1,200	145	174	18.80	3,271
	1984	1,400	150	210	20.20	4,242
	1985	1,400	160	224	18.60	4,166
	1986	1,500	160	240	19.70	4,728
	1987	1,200	155	186	18.70	3,478
	1988	1,000	165	165	19.00	3,135
Honeydew	1979	12,500	193	2,413	10.40	25,089
	1980	11,900	191	2,268	11.80	26,856
	1981	13,300	180	2,394	13.40	32,080
	1982	16,500	155	2,558	11.50	29,417
	1983	15,500	185	2,868	11.00	31,548
	1984	16,300	170	2,771	12.80	35,469
	1985	18,500	185	3,423	10.20	34,915
	1986	19,000	200	3,800	11.00	41,800
	1987	20,600	180	3,708	11.90	44,125
	1988	21,300	170	3,621	13.10	47,435
Persian	1979	450	104	47	13.30	625
	1980	400	180	72	16.10	1,159
	1981	450	120	54	18.90	1,021
	1982	500	120	60	14.20	852
	1983	450	140	63	16.60	1,046
	1984	400	140	56	19.30	1,081
	1985	550	200	110	17.00	1,870
	1986	600	140	84	19.30	1,621
	1987	400	130	52	15.30	796
	1988	500	170	85	16.00	1,360
MUSHROOMS	1979	478	1,628	778	90.80	70,632
	1980	506	1,573	796	92.70	73,786
	1981	550	1,516	834	96.60	80,600
	1982	547	1,600	875	102.00	88,907
	1983	546	1,637	894	111.00	99,415
	1984	581	1,867	1,085	98.60	106,967
	1985	578	1,965	1,136	100.00	114,143
	1986	518	2,063	1,069	97.70	104,444
	1987	495	2,242	1,110	110.00	122,064
	1988	501	2,248	1,126	97.90	110,189
ONIONS Spring	1979	5,600	340	1,904	10.40	19,802
	1980	5,100	330	1,683	9.77	16,443
	1981	6,000	360	2,160	18.90	40,824
	1982	7,900	355	2,805	10.10	28,331
	1983	7,600	285	2,166	10.80	23,393

CALIFORNIA VEGETABLE CROPS SUMMARY: Fresh Market and Dual Usage Crops, 1979-88

Crop	Year	Harvested Acreage	Average Yield (Cwt.)	Production ---------- 1,000 Cwt.	Price Per Cwt. a/	Total Value (000)
ONIONS Spring - Continued	1984	7,700	355	2,734	$ 12.00	$ 32,808
	1985	7,800	450	3,510	14.30	50,193
	1986	7,800	370	2,886	10.30	29,726
	1987	8,200	390	3,198	17.60	56,285
	1988	8,500	390	3,315	9.71	32,189
Summer c/	1979	29,700	320	9,504	6.09	55,669
	1980	25,000	240	6,000	7.62	44,121
	1981	22,300	315	7,025	8.37	56,969
	1982	29,700	350	10,395	6.74	68,573
	1983	27,400	335	9,179	8.49	76,077
	1984	26,900	365	9,819	7.73	74,003
	1985	25,000	370	9,250	7.53	65,889
	1986	26,900	370	9,953	8.87	76,765
	1987	29,000	370	10,730	7.75	80,264
	1988	32,000	380	12,160	6.13	71,893
Total c/	1979	35,300	323	11,408	6.62	75,471
	1980	30,100	255	7,683	7.88	60,564
	1981	28,300	325	9,185	10.60	97,793
	1982	37,600	351	13,200	7.34	96,904
	1983	35,000	324	11,345	8.77	99,470
	1984	34,600	363	12,553	8.51	106,811
	1985	32,800	389	12,760	9.10	116,082
	1986	34,700	370	12,839	8.29	106,491
	1987	37,200	374	13,928	9.80	136,549
	1988	40,500	382	15,475	6.73	104,082
POTATOES Winter	1979	3,300	240	792	9.80	7,762
	1980	3,000	235	705	7.20	5,076
	1981	3,200	280	896	12.80	11,469
	1982	3,800	245	931	9.70	9,031
	1983	4,700	270	1,269	7.55	9,581
	1984	5,600	260	1,456	9.25	13,468
	1985	5,400	260	1,404	9.80	13,759
	1986	5,100	290	1,479	7.00	10,353
	1987	4,600	235	1,081	11.30	12,215
	1988	5,200	230	1,196	10.40	12,438
Spring	1979	28,000	395	11,060	4.50	49,770
	1980	22,500	390	8,775	7.30	64,058
	1981	26,400	390	10,296	11.90	122,522
	1982	25,500	375	9,563	10.60	101,368
	1983	24,500	340	8,330	9.45	78,719
	1984	28,500	390	11,115	12.00	133,380
	1985	27,500	385	10,588	9.60	101,645

CALIFORNIA VEGETABLE CROPS SUMMARY: Fresh Market and Dual Usage Crops, 1979-88

Crop	Year	Harvested Acreage	Average Yield (Cwt.)	Production ---------- 1,000 Cwt.	Price Per Cwt. a/	Total Value (000)
POTATOES Spring - Continued	1986	19,500	390	7,605	$ 8.55	$ 65,023
	1987	21,300	370	7,881	11.50	90,632
	1988	19,600	385	7,546	8.90	67,159
Summer	1979	7,700	350	2,695	4.70	12,667
	1980	7,600	365	2,774	11.00	30,514
	1981	8,000	370	2,960	11.70	34,632
	1982	8,400	365	3,066	9.25	28,631
	1983	8,000	320	2,560	10.00	25,600
	1984	8,100	360	2,916	12.30	35,867
	1985	7,200	375	2,700	7.35	19,845
	1986	6,800	365	2,482	9.95	24,696
	1987	6,400	345	2,208	10.60	23,405
	1988	5,900	325	1,918	12.40	23,783
Fall	1979	17,200	370	6,364	5.30	33,729
	1980	17,400	370	6,438	9.00	57,942
	1981	18,700	370	6,919	7.05	48,779
	1982	18,500	410	7,585	6.30	47,786
	1983	19,000	410	7,790	8.90	69,331
	1984	18,200	400	7,280	7.70	56,056
	1985	21,500	390	8,385	6.10	51,149
	1986	17,000	405	6,885	6.40	44,064
	1987	18,300	430	7,869	4.15	32,656
	1988	16,500	370	6,105	6.60	40,293
Total	1979	56,200	372	20,911	5.00	103,928
	1980	50,500	370	18,692	9.00	157,590
	1981	56,300	374	21,071	10.40	217,402
	1982	56,200	376	21,145	8.90	186,816
	1983	56,200	355	19,949	9.20	183,231
	1984	60,400	377	22,767	10.60	238,771
	1985	61,600	375	23,077	8.15	186,398
	1986	48,400	381	18,451	7.85	144,136
	1987	50,600	376	19,039	8.45	158,908
	1988	47,200	355	16,765	8.65	143,673
SWEETPOTATOES	1979	9,600	170	1,632	14.20	23,174
	1980	9,000	170	1,530	17.80	26,914
	1981	8,900	185	1,647	15.70	25,858
	1982	9,200	190	1,748	11.30	19,752
	1983	8,800	195	1,716	13.60	23,338
	1984	8,000	180	1,440	15.10	21,744
	1985	7,400	195	1,443	12.80	18,470
	1986	6,800	200	1,360	11.70	15,912
	1987	6,600	205	1,353	20.40	27,601
	1988	7,100	170	1,207	12.70	18,329

CALIFORNIA VEGETABLE CROPS SUMMARY: Fresh Market and Dual Usage Crops, 1979-88

Crop	Year	Harvested Acreage	Average Yield (Cwt.)	Production ---------- 1,000 Cwt.	Price Per Cwt. a/	Total Value (000)
STRAWBERRIES Fresh Market	1979	---	---	3,266	$ 40.20	$ 131,293
	1980	---	---	3,561	46.30	164,874
	1981	---	---	3,973	47.10	187,128
	1982	---	---	4,057	55.70	225,975
	1983	---	---	4,107	53.20	218,492
	1984	---	---	5,908	49.10	290,083
	1985	---	---	5,804	51.90	301,228
	1986	---	---	5,804	58.30	338,373
	1987	---	---	6,002	58.00	348,116
	1988	---	---	6,574	52.00	341,848
Processing	1979	---	---	1,449	26.50	38,399
	1980	---	---	1,609	24.20	38,938
	1981	---	---	1,423	25.60	36,429
	1982	---	---	2,215	30.90	68,444
	1983	---	---	2,133	28.50	60,791
	1984	---	---	1,636	17.60	28,794
	1985	---	---	1,934	16.90	32,685
	1986	---	---	2,074	22.60	46,872
	1987	---	---	2,230	26.70	59,541
	1988	---	---	2,050	23.00	47,150
Total	1979	11,500	410	4,715	36.00	169,692
	1980	11,000	470	5,170	39.40	203,812
	1981	10,900	495	5,396	41.40	223,557
	1982	11,200	560	6,272	46.90	294,419
	1983	13,000	480	6,240	44.80	279,283
	1984	14,100	535	7,544	42.30	318,877
	1985	14,600	530	7,738	43.20	333,913
	1986	15,600	505	7,878	48.90	385,245
	1987	16,800	490	8,232	49.50	407,657
	1988	17,600	490	8,624	45.10	388,998
TOMATOES, FRESH MARKET Desert	1979	2,000	170	340	27.70	9,418
	1980	1,300	245	319	35.70	11,388
	1981	1,300	235	306	23.80	7,283
	1982	1,400	235	329	35.60	11,712
	1983	1,500	220	330	32.80	10,824
	1984	1,800	225	405	25.40	10,287
	1985	1,500	220	330	18.30	6,039
	1986	1,400	230	322	29.80	9,596
	1987	1,100	220	242	30.90	7,478
	1988	1,100	320	352	30.90	10,877
Non-Desert	1979	27,300	244	6,671	20.10	133,873
	1980	29,200	253	7,384	20.80	153,504

CALIFORNIA VEGETABLE CROPS SUMMARY: Fresh Market and Dual Usage Crops, 1979-88

Crop	Year	Harvested Acreage	Average Yield (Cwt.)	Production 1,000 Cwt.	Price Per Cwt. a/	Total Value (000)
TOMATOES, FRESH MARKET Non-Desert - Continued	1981	28,800	255	7,344	$ 20.40	$ 149,818
	1982	27,300	250	6,825	18.90	128,993
	1983	27,800	280	7,784	18.90	147,118
	1984	26,100	270	7,047	25.30	178,289
	1985	27,100	275	7,453	19.40	144,588
	1986	27,200	280	7,616	22.50	171,360
	1987	28,400	290	8,236	21.30	175,427
	1988	36,400	235	8,554	29.60	253,198
Total	1979	29,300	239	7,011	20.44	143,291
	1980	30,500	253	7,703	21.40	164,892
	1981	30,100	254	7,650	20.50	157,101
	1982	28,700	249	7,154	19.70	140,705
	1983	29,300	277	8,114	19.50	157,942
	1984	27,900	267	7,452	25.30	188,576
	1985	28,600	272	7,783	19.40	150,627
	1986	28,600	278	7,938	22.80	180,956
	1987	29,500	287	8,478	21.60	182,905
	1988	37,500	237	8,906	29.70	264,075
MISCELLANEOUS VEGETABLES d/	1979	42,450	---	9,631	---	210,471
	1980	179,235	---	24,859	---	459,917
	1981	153,900	---	24,517	---	465,000
	1982	173,100	---	27,649	---	555,560
	1983	172,000	---	28,143	---	572,100
	1984	182,000	---	31,640	---	606,000
	1985	186,000	---	32,040	---	590,000
	1986	174,800	---	32,500	---	607,000
	1987	234,600	---	30,858	---	683,536
	1988	241,638	---	31,000	---	669,865
ALL VEGETABLES e/	1979	804,148	---	249,608	---	2,017,334
	1980	903,701	---	249,265	---	2,298,061
	1981	870,360	---	240,425	---	2,544,890
	1982	941,847	---	274,988	---	2,830,223
	1983	952,706	---	269,162	---	2,967,300
	1984	995,631	---	295,351	---	3,194,713
	1985	985,678	---	284,956	---	3,069,381
	1986	994,498	---	309,646	---	3,435,157
	1987	1,093,305	---	321,641	---	3,746,526
	1988	1,117,099	---	322,075	---	3,701,745

a/ The processed price is based on equivalent returns at the processing plant door. The fresh market price is on a packed and loaded basis, f.o.b. shipping point.

b/ Information unavailable due to disclosure.

c/ Production includes quantity harvested but not marketed because of loss during storage (shrinkage): For onion -- 1983 - 220,000 cwt., 1984-250,000 cwt., 1985 - 497,000 cwt., 1986 - 200,000 cwt., 1987 - 375,000 cwt., 1988 - 435,000 cwt. Storage loss amounts are excluded when computing total value.

d/ Miscellaneous vegetables include: Artichokes, green lima beans for processing, cabbage, cucumbers, garlic, green onions, oriental vegetables, green peas, bell peppers, watermelons, etc.

e/ Potatoes and sweetpotatoes are included in the Field Crop Bulletin.

CALIFORNIA VEGETABLE CROPS: Harvested Acreage by Counties, 1987-88

Crop & County	1987	1988
ASPARAGUS		
Contra Costa	2,400	2,200
Imperial	3,900	4,000
Monterey	4,200	3,900
Orange	800	700
Riverside	5,900	5,900
Sacramento	1,400	1,400
San Joaquin	17,500	16,800
Yolo	800	700
Other Counties	2,800	4,500
Total	39,700	40,100
BROCCOLI		
Fresno	9,800	7,500
Imperial	7,900	9,300
Kings	1,000	900
Monterey	55,000	49,100
Riverside	1,500	2,600
San Benito	800	800
San Luis Obispo	6,700	6,600
Santa Barbara	17,400	19,000
Santa Clara	900	800
Stanislaus	800	1,100
Ventura	5,000	2,500
Other Counties	800	900
Total	107,600	101,100
CANTALOUP		
Fresno	38,500	34,500
Imperial	28,100	30,100
Kern	2,100	1,600
Kings	2,000	1,100
Merced	6,800	9,300
Riverside	5,200	4,700
Other Counties	2,400	3,200
Total	85,100	84,500
CARROTS		
Fresno	5,000	3,600
Imperial	12,000	12,800
Kern	18,500	20,900
Monterey	5,100	5,800
Riverside	2,500	1,800
San Luis Obispo	3,200	2,800
Other Counties	3,700	3,400
Total	50,000	51,100
CAULIFLOWER		
Fresno	2,400	1,500
Imperial	5,700	7,500
Monterey	24,000	20,200
Riverside	800	900
San Diego	600	500
San Joaquin	800	1,000
San Luis Obispo	2,600	2,300
Santa Barbara	7,500	7,500
Santa Cruz	1,100	800
Stanislaus	1,200	900
Ventura	1,500	2,100
Other Counties	2,900	2,800
Total	51,100	48,000
CELERY		
Monterey	6,200	4,500
San Benito	700	500
San Luis Obispo	800	1,100
Santa Barbara	2,800	2,400
Ventura	9,600	10,700
Other Counties	1,200	1,100
Total	21,300	20,300
CORN, SWEET		
Contra Costa	800	700
Los Angeles	500	400
Orange	600	600
Riverside	4,800	4,300
San Diego	600	500
Santa Clara	900	900
Ventura	1,500	1,700
Other Counties	6,300	5,900
Total	16,000	15,000
LETTUCE		
Fresno	17,800	18,000
Imperial	29,000	31,200
Kern	5,600	7,000
Monterey	68,200	68,500
Riverside	12,800	10,700
San Benito	1,000	1,400
San Luis Obispo	7,900	7,700
Santa Barbara	7,600	8,300
Santa Cruz	3,500	3,800
Ventura	1,700	1,300
Other Counties	2,000	1,600
Total	157,100	159,500

CALIFORNIA VEGETABLE CROPS: Harvested Acreage by Counties, 1987-88

Crop & County	1987	1988
ONIONS		
Fresno	12,900	13,900
Imperial	8,300	9,000
Kern	8,500	8,200
Kings	500	400
Los Angeles	1,400	1,700
Riverside	600	800
San Benito	800	900
San Joaquin	1,700	1,800
Santa Clara	700	500
Other Counties	1,800	3,300
Total	37,200	40,500
POTATOES, WINTER		
Kern	2,200	2,300
Riverside	2,400	2,700
Other Counties	---	200
Total	4,600	5,200
POTATOES, SPRING		
Kern	21,000	19,300
Other Counties	300	300
Total	21,300	19,600
POTATOES, SUMMER		
Riverside	2,200	2,300
San Diego	a/	a/
San Joaquin	1,200	1,300
Santa Barbara	a/	a/
Other Counties	3,000	2,300
Total	6,400	5,900
POTATOES, FALL		
Humboldt	600	500
Modoc	7,400	6,200
Monterey	1,000	1,100
San Joaquin	a/	a/
Siskiyou	8,300	7,700
Other Counties	1,000	1,000
Total	18,300	16,500
SWEETPOTATOES		
Fresno	1,200	1,300
Merced	4,900	5,100
San Bernardino	a/	a/
San Diego	a/	a/
Stanislaus	300	400
Other Counties	200	300
Total	6,600	7,100

Crop & County	1987	1988
STRAWBERRIES		
Los Angeles-Orange	2,680	2,700
Monterey-Santa Cruz	6,150	6,500
Santa Barbara-San Luis Obispo	2,900	3,200
San Diego	940	1,000
Ventura	3,450	3,500
Other Counties	680	700
Total	16,800	17,600
TOMATOES, FRESH MARKET		
Fresno	5,000	5,600
Kings	1,900	2,200
Merced	5,300	5,300
Monterey	3,500	4,400
Orange	800	600
San Diego	2,400	2,700
San Joaquin	6,100	7,800
Stanislaus	1,700	3,900
Other Counties	2,800	5,000
Total	29,500	37,500
TOMATOES, PROCESSING		
Colusa	12,800	13,800
Contra Costa	6,000	6,500
Fresno	62,700	67,300
Kern	2,400	2,600
Merced	6,400	6,550
Monterey	1,300	1,540
Sacramento	4,300	5,100
San Benito	5,100	5,900
San Joaquin	22,000	22,200
Santa Clara	2,100	1,600
Solano	14,200	13,150
Stanislaus	11,300	13,200
Sutter	14,100	15,200
Yolo	41,100	43,350
Other Counties	8,200	8,110
Total	214,000	226,100

a/ Reported under "Other Counties" to avoid disclosure.

CALIFORNIA MISCELLANEOUS VEGETABLE CROPS:
Harvested Acreage by Counties, 1988 a/

Crop & County	1988
ARTICHOKES	
Monterey	7,720
Other Counties	4,160
Total	11,880
BEANS, GREEN LIMAS	
Merced	4,136
Stanislaus	10,350
Ventura	5,200
Other Counties	6,483
Total	26,169
BEANS, SNAP, ALL	
Orange	1,455
Riverside	320
San Diego	377
San Luis Obispo	408
San Mateo	120
Santa Clara	565
Stanislaus	2,250
Ventura	300
Other Counties	1,171
Total	6,966
BRUSSELS SPROUTS	
Monterey	1,401
San Luis Obispo	66
San Mateo	650
Santa Cruz	1,037
Other Counties	25
Total	3,179
CABBAGE, ALL	
Imperial	840
Monterey	813
Orange	692
Riverside	580
San Benito	770
San Diego	90
San Luis Obispo	563
Santa Barbara	1,550
Santa Clara	215
Ventura	3,134
Other Counties	1,645
Total	10,892
CUCUMBERS	
Orange	336
Riverside	638
San Diego	1,169
San Joaquin	2,500
Santa Clara	1,000
Tulare	285
Ventura	559
Other Counties	480
Total	6,967
EGGPLANT, ALL	
Fresno	350
Riverside	253
Other Counties	98
Total	701
ENDIVE, ALL	
Monterey	613
Other Counties	130
Total	743
ESCAROLE, ALL	
Monterey	438
Other Counties	44
Total	482
GARLIC, ALL	
Fresno	11,700
Kern	2,673
Monterey	500
Santa Clara	375
Other Counties	571
Total	15,819
HORSERADISH	
Modoc	845
Total	845
KALE	
Monterey	196
Other Counties	148
Total	344

CALIFORNIA MISCELLANEOUS VEGETABLE CROPS:
Harvested Acreage by Counties, 1988 a/

Crop & County	1988
MELONS, WATERMELON	
Fresno	260
Imperial	4,275
Kern	2,824
Merced	1,026
Orange	171
Riverside	1,437
San Joaquin	1,610
Stanislaus	645
Sutter	297
Other Counties	1,073
Total	13,618
ONIONS, GREEN AND SHALLOTS	
Monterey	1,295
Riverside	1,320
Other Counties	1,645
Total	4,260
PARSLEY	
Monterey	613
Ventura	2,721
Other Counties	320
Total	3,654
PEAS, EDIBLE POD (SNOW)	
San Luis Obispo	3,750
Santa Barbara	650
Total	4,400
PEAS, GREEN, ALL	
Merced	800
San Mateo	600
Stanislaus	3,125
Other Counties	1,701
Total	6,226

Crop & County	1988
PEPPERS, BELL	
Fresno	3,200
Merced	1,236
Monterey	121
Orange	647
Riverside	632
Sacramento	760
San Benito	2,090
San Diego	80
San Joaquin	3,760
San Luis Obispo	1,134
Santa Clara	800
Stanislaus	975
Ventura	98
Other Counties	2,235
Total	17,768
PEPPERS, CHILI, HOT	
Monterey	2,720
Santa Clara	525
Other Counties	420
Total	3,665
PUMPKINS	
Riverside	186
San Joaquin	1,930
San Mateo	300
Santa Clara	200
Sutter	934
Other Counties	538
Total	4,088
RADISHES	
Riverside	148
Other Counties	1,479
Total	1,627

CALIFORNIA MISCELLANEOUS VEGETABLE CROPS: Harvested Acreage by Counties, 1988 a/

Crop & County	1988
SPINACH	
Monterey	4,355
Riverside	262
Santa Barbara	612
Santa Clara	200
Stanislaus	2,430
Ventura	2,514
Other Counties	455
Total	10,828
SQUASH	
Contra Costa	233
Fresno	928
Imperial	467
Monterey	318
Orange	643
Riverside	896
Sacramento	70
San Diego	678
San Luis Obispo	328
Santa Barbara	797
Santa Clara	90
Stanislaus	655
Sutter	266
Other Counties	1,654
Total	8,023
TOMATOES, CHERRY	
Fresno	650
Monterey	230
San Diego	123
Santa Clara	100
Other Counties	103
Total	1,206
VEGETABLES, ORIENTAL, ALL	
Fresno	850
Monterey	610
Riverside	419
San Bernardino	530
San Luis Obispo	1,261
Santa Clara	175
Other Counties	640
Total	4,485

a/ SOURCE: County Agricultural Commissioners's Reports

CALIFORNIA VEGETABLE CROPS: 1987 Monthly Prices, Fresh Market Vegetables a/

Crop	Month												1987
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Average
						Dollars per Hundredweight							
Asparagus	110.00	105.00	69.90	61.20	47.10	58.30	---	---	---	---	---	---	66.10
Broccoli	31.90	17.70	23.60	18.40	17.30	18.00	17.00	16.50	17.50	19.60	28.80	34.40	21.40
Cantaloup	---	---	---	---	36.00	12.00	7.79	10.70	11.30	9.68	15.00	---	11.50
Carrots, Desert	12.60	12.40	11.60	8.89	10.30	12.20	---	---	---	---	---	12.50	10.90
Carrots, Other	12.80	12.60	11.80	8.91	10.30	12.30	9.80	7.59	8.55	9.37	8.58	12.70	10.60
Cauliflower	35.80	24.10	30.80	31.40	27.10	23.00	23.00	23.40	23.50	23.40	39.80	50.80	28.40
Celery, South Coast	14.80	13.00	12.90	11.30	12.00	9.91	---	---	---	7.40	9.45	15.20	12.10
Celery, Central Coast	---	---	---	---	12.00	9.88	8.09	8.77	11.70	7.34	9.43	14.80	9.36
Corn, Sweet	---	---	---	18.00	13.20	16.20	10.30	12.20	12.70	10.60	13.70	---	13.30
Honeydew Melons	---	---	---	---	---	17.90	8.57	12.90	13.00	11.80	12.60	15.30	11.90
Lettuce	14.20	8.73	14.60	8.30	8.12	8.82	17.10	18.10	16.20	13.30	39.50	30.30	15.10
Strawberries	101.00	125.00	92.70	46.10	50.40	54.90	55.90	54.00	68.10	116.00	146.00	---	58.00
Tomatoes, Desert	---	---	---	---	38.20	23.90	---	---	---	---	---	---	30.90
Tomatoes, Other	---	---	---	---	---	23.90	17.30	15.30	19.60	24.20	44.20	32.10	21.30

a/ Prices are F.O.B. shipping point.

CALIFORNIA VEGETABLE CROPS: 1987 Monthly Sales, Fresh Market Vegetables

Crop	Month												1987
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
						Thousand Hundredweight							
Asparagus	19	81	291	412	154	25	---	1	3	1	---	---	987
Broccoli	546	757	653	813	755	667	493	534	592	714	610	567	7,701
Cantaloup	---	---	---	---	596	3,356	3,587	2,104	1,406	928	246	---	12,223
Carrots, Desert	217	308	465	585	510	179	2	---	---	---	14	91	2,371
Carrots, Other	904	679	626	632	663	978	983	635	682	662	794	756	8,994
Cauliflower	191	292	374	446	572	462	366	343	383	437	304	214	4,384
Celery, South Coast a/	782	831	863	1,018	778	861	134	---	---	12	314	560	6,153
Celery, Central Coast a/	63	4	---	1	78	384	807	712	922	1,220	1,426	494	6,111
Corn, Sweet	---	---	---	28	625	360	252	32	35	117	34	---	1,483
Honeydew Melons	---	---	---	---	2	228	1,031	944	764	393	181	23	3,566
Lettuce	2,270	2,353	1,942	4,567	5,091	4,702	4,007	4,156	4,377	4,255	1,979	1,783	41,482
Strawberries	59	115	373	1,656	1,482	815	539	385	249	115	20	2	5,810
Tomatoes, Desert	---	---	---	---	67	50	---	---	---	---	---	---	117
Tomatoes, Other	7	---	---	---	23	619	1,419	1,297	2,136	1,974	398	17	7,890

a/ Includes small amount of processing.

CALIFORNIA VEGETABLE CROPS: 1988 Monthly Prices, Fresh Market Vegetables a/

Crop	Month												1988
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Average
	Dollars per Hundredweight												
Asparagus	120.00	120.00	76.50	66.40	52.40	55.80	—	—	—	—	—	—	72.50
Broccoli	35.10	15.60	31.10	14.40	13.10	16.60	19.60	38.90	37.20	27.20	21.30	32.80	23.90
Cantaloup	—	—	—	—	27.80	16.80	7.00	5.95	4.65	5.90	7.85	—	9.00
Carrots, Desert	16.80	12.40	10.20	9.70	13.40	14.60	—	—	—	—	17.20	18.40	11.60
Carrots, Other	17.00	12.30	10.20	9.85	13.30	9.75	13.60	15.10	15.40	12.80	10.00	12.50	12.60
Cauliflower	32.90	20.10	50.00	24.30	21.40	24.70	23.00	29.50	34.10	24.00	23.90	39.20	27.60
Celery, South Coast	17.70	12.30	7.10	10.10	12.40	8.35	—	—	—	—	12.50	11.30	11.00
Celery, Central Coast	—	—	—	—	12.60	7.65	9.90	14.30	14.30	10.60	12.30	10.80	11.30
Corn, Sweet	—	—	—	15.00	14.60	15.70	15.70	14.20	11.50	15.80	28.80	—	15.10
Honeydew Melons	—	—	—	—	19.00	19.20	15.40	11.50	9.20	15.20	23.80	—	13.10
Lettuce	32.90	9.00	15.50	6.70	7.65	10.70	7.00	13.10	11.00	11.60	13.90	19.10	12.20
Strawberries	—	74.30	64.30	42.70	50.00	43.90	50.00	55.00	60.00	70.00	160.00	—	52.00
Tomatoes, Desert	—	—	—	—	39.70	22.50	—	—	—	—	—	—	30.90
Tomatoes, Other	—	—	—	—	—	27.50	32.50	41.30	31.60	20.00	27.70	—	29.60

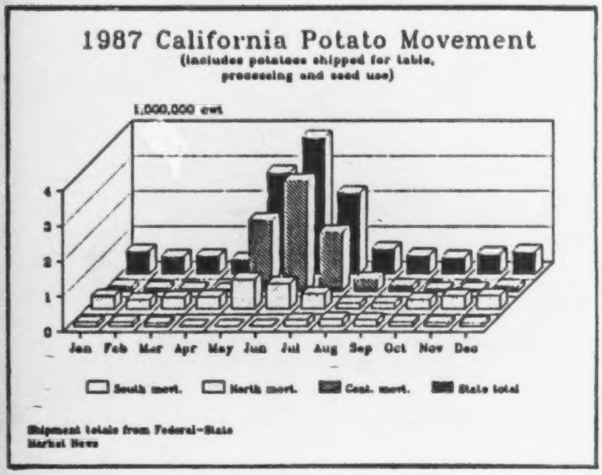
a/ Prices are F.O.B. shipping point.

CALIFORNIA VEGETABLE CROPS: 1988 Monthly Sales, Fresh Market Vegetables

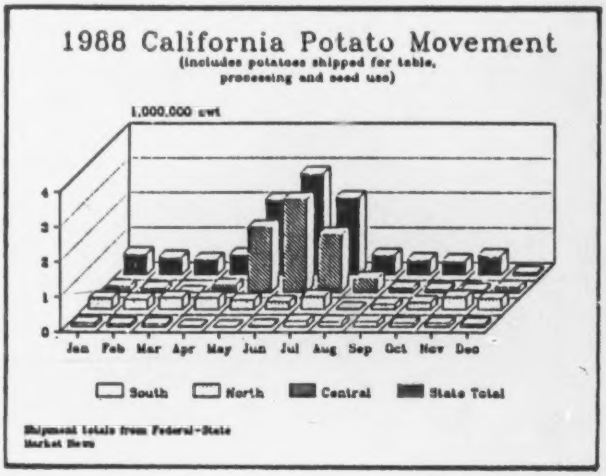
Crop	Month												1988
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
	Thousand Hundredweight												
Asparagus	5	88	409	356	168	29	—	1	4	16	3	—	1,079
Broccoli	640	693	579	908	795	690	521	500	388	762	751	657	7,884
Cantaloup	—	—	—	—	554	1,582	2,089	2,953	1,786	974	445	2	10,385
Carrots, Desert	181	204	432	439	397	119	1	—	2	3	42	113	1,933
Carrots, Other	720	631	579	584	767	1,085	1,083	664	547	683	977	1,072	9,392
Cauliflower	282	303	308	557	547	453	382	349	247	503	414	314	4,659
Celery, South Coast a/	692	796	989	567	825	972	139	—	—	—	233	638	5,851
Celery, Central Coast a/	21	4	—	1	67	426	784	721	661	1,288	1,497	577	6,047
Corn, Sweet	—	—	—	35	605	433	224	102	51	31	10	—	1,491
Honeydew Melons	—	—	—	—	24	178	653	1,011	932	336	141	9	3,284
Lettuce	1,945	2,677	2,057	4,176	5,057	5,086	4,429	4,499	3,856	5,263	2,851	1,706	43,602
Strawberries	12	183	754	1,610	1,453	1,003	676	470	307	195	52	6	6,721
Tomatoes, Desert	—	—	—	—	122	96	—	—	—	—	—	—	218
Tomatoes, Other	—	—	—	—	56	391	1,584	1,382	1,680	2,289	722	34	8,138

a/ Includes small amount of processing.

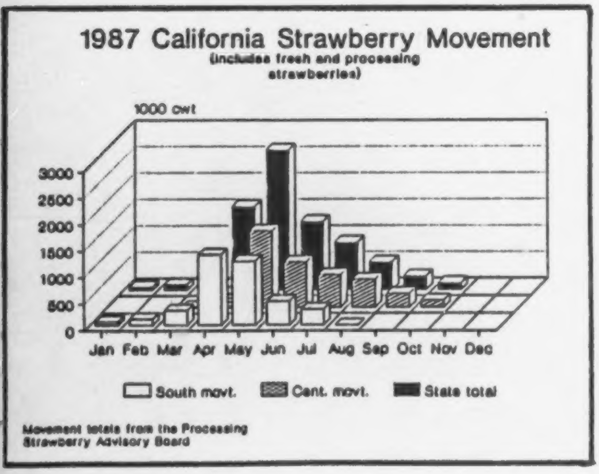
REGIONAL MOVEMENT OF TWO SELECTED CALIFORNIA COMMODITIES


1987 California Potato Movement
(includes potatoes shipped for table, processing and seed use)

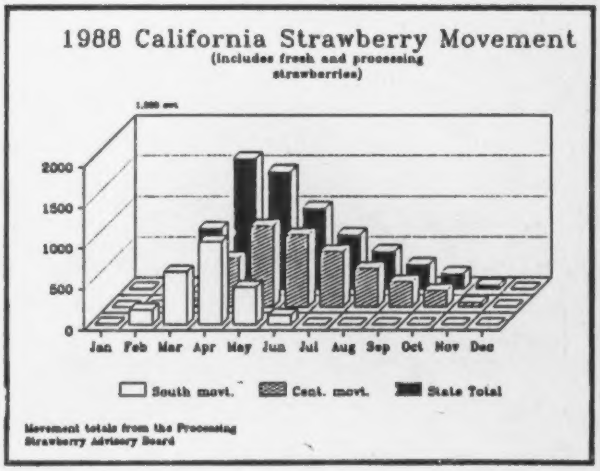
Shipment totals from Federal-State Market News


1988 California Potato Movement
(includes potatoes shipped for table, processing and seed use)

Shipment totals from Federal-State Market News


1987 California Strawberry Movement
(includes fresh and processing strawberries)

Movement totals from the Processing Strawberry Advisory Board


1988 California Strawberry Movement
(includes fresh and processing strawberries)

Movement totals from the Processing Strawberry Advisory Board

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FOOD & AGRICULTURE
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SACRAMENTO, CA 95814

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